| Sample              |                 |              | <b>.</b>  | Premises    |       |             |  |
|---------------------|-----------------|--------------|-----------|-------------|-------|-------------|--|
| Reference<br>Number | Local Authority | Carrada Data | Premise   | name and    | Duand | Food        | An all set O a series a set a  |
| Number              | Name            | Sample Date  | Туре      | postcode    | Brand | Description | Analyst Comments  DNA was extracted from the sample. Seven                             |
|                     |                 |              |           |             |       |             | real-time PCR assays for Bos taurus (Beef),  |
|                     |                 |              |           |             |       |             | Sus scrofa (Pork), Ovis aries (Sheep), Capra   |
|                     |                 |              |           |             |       |             | hircus (Goat), Equus caballus (Horse), Gallus  |
|                     |                 |              |           |             |       |             | gallus (Chicken) and Meleagris gallopavo   |
|                     |                 |              |           |             |       |             | (Turkey) were then applied to detect and   |
|                     |                 |              |           |             |       |             | measure the amount of those animal species   |
|                     |                 |              |           |             |       |             | present. The measurement is semi-  |
|                     |                 |              |           |             |       |             | quantitative, and estimates from the detected  |
|                     |                 |              |           |             |       |             | signals the amount of DNA present for all  |
|                     |                 |              |           |             |       |             | tested species and each individual species in  |
|                     |                 |              |           |             |       |             | bands as follows:  |
|                     |                 |              |           |             |       |             | Major part (60 - 100%)   |
|                     |                 |              |           |             |       |             | Medium part (30 - 60%)   |
|                     |                 |              |           |             |       |             | Minor part (5 - 30%)   |
|                     |                 |              |           |             |       |             | Diminutive part (1 - 5%)   |
|                     |                 |              |           |             |       |             | Very diminutive part (<1%).  |
|                     |                 |              |           |             |       |             | The following species were detected in the   |
|                     |                 |              |           |             |       |             | sample:  |
|                     |                 |              |           |             |       |             | Pork (major part)  |
|                     |                 |              |           |             |       |             | Sheep (minor part)   |
|                     |                 |              |           |             |       |             | Beef (very diminutive part)  |
|                     |                 |              |           |             |       |             | The Products Containing Meat etc.  |
|                     |                 |              |           |             |       |             | Regulations (Northern Ireland) 2014 require  |
|                     |                 |              |           |             |       |             | pork sausages to contain meat from pigs only.  |
|                     |                 |              |           |             |       |             | In addition to bearing a revised name to   |
|                     |                 |              |           |             |       |             | reflect its composition, this meat product must  |
|                     |                 |              |           |             |       |             | be labelled a QUID declaration of the  |
|                     | Ards and        |              |           |             |       |             | proportion of each species off meat used in it. Information must also be available for |
|                     | North Down      |              |           |             |       |             | consumers regarding allergenic ingredients   |
|                     | Borough         |              |           | Sections 31 |       | PORK        | such as sulphites or cereals containing gluten   |
| 80200264385         | Council         | 01/03/2017   | Retailers | & 43        | N/A   | SAUSAGES    | used in the product.   |

|             |            |            |           |             |     |            | DNA was extracted from the sample. Seven   |
|-------------|------------|------------|-----------|-------------|-----|------------|--|
|             |            |            |           |             |     |            | real-time PCR assays for Bos taurus (Beef),  |
|             |            |            |           |             |     |            | Sus scrofa (Pork), Ovis aries (Sheep), Capra   |
|             |            |            |           |             |     |            | hircus (Goat), Equus caballus (Horse), Gallus  |
|             |            |            |           |             |     |            | gallus (Chicken) and Meleagris gallopavo   |
|             |            |            |           |             |     |            | (Turkey) were then applied to detect and   |
|             |            |            |           |             |     |            | measure the amount of those animal species   |
|             |            |            |           |             |     |            | present. The measurement is semi-  |
|             |            |            |           |             |     |            | quantitative, and estimates from the detected  |
|             |            |            |           |             |     |            | signals the amount of DNA present for all  |
|             |            |            |           |             |     |            | tested species and each individual species in  |
|             |            |            |           |             |     |            | bands as follows:  |
|             |            |            |           |             |     |            | Major part (60 - 100%)   |
|             |            |            |           |             |     |            | Medium part (30 - 60%)   |
|             |            |            |           |             |     |            | Minor part (5 - 30%)   |
|             |            |            |           |             |     |            | Diminutive part (1 - 5%)   |
|             |            |            |           |             |     |            | Very diminutive part (<1%).  |
|             |            |            |           |             |     |            | The following species were detected in the   |
|             |            |            |           |             |     |            | sample:  |
|             |            |            |           |             |     |            | Pork (major part)  |
|             |            |            |           |             |     |            | Beef (diminutive part)   |
|             |            |            |           |             |     |            | Sheep (very diminutive part)   |
|             |            |            |           |             |     |            | The Products Containing Meat etc.  |
|             |            |            |           |             |     |            | Regulations (Northern Ireland) 2014 require  |
|             |            |            |           |             |     |            | pork sausages to contain meat from pigs only.  |
|             |            |            |           |             |     |            | In addition to bearing a revised name to   |
|             |            |            |           |             |     |            | reflect its composition, this meat product must  |
|             |            |            |           |             |     |            | be labelled a QUID declaration of the  |
|             | Ards and   |            |           |             |     |            | proportion of each species off meat used in it. Information must also be available for |
|             | North Down |            |           |             |     |            | consumers regarding allergenic ingredients   |
|             | Borough    |            |           | Sections 31 |     | PORK       | such as sulphites or cereals containing gluten   |
| 80200264401 | Council    | 02/03/2017 | Retailers | & 43        | N/A | SAUSAGES   | used in the product.   |
| 55200201101 |            | 32,00,2011 | Manufact  | J. 10       |     | 5.100.1020 | The apparent meat content of the sample was  |
|             | Ards and   |            | urers     | Sections 31 |     | PORK       | acceptable; the level of suphur dioxide  |
| 80200263668 | North Down | 24/01/2017 | mainly    | & 43        | N/A | SAUSAGES   | preservative found was not excessive.  |

| Council  Information must be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagnis gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1 - 5%) Sheep (very diminutive part) Sheep (very diminutive part) |             | Borough  |            | selling by |             |     |       |   |
|---|-------------|----------|------------|------------|-------------|-----|-------|---|
| regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | Information must be available for consumers   |
| sulphites or cereals containing gluten used in the product.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             | Council  |            | retaii     |             |     |       |   |
| the product.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (-1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| DNÁ was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrota (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi- quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| Sus scrofa (Pork), Övis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | DNA was extracted from the sample. Seven      |
| hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | real-time PCR assays for Bos taurus (Beef),   |
| gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
| gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | hircus (Goat), Equus caballus (Horse), Gallus |
| (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | gallus (Chicken) and Meleagris gallopavo      |
| measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       |   |
| quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       |   |
| Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | Sando de fellewe.                             |
| Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       | Major part (60 - 100%)                        |
| Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       |   |
| Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       |   |
| The following species were detected in the sample: Pork (major part) Chicken (minor part) Beef (diminutive part)  |             |          |            |            |             |     |       |   |
| sample: Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | very diffillative part (<176).                |
| Pork (major part) Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | The following species were detected in the    |
| Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | sample:                                       |
| Chicken (minor part) Beef (diminutive part)   |             |          |            |            |             |     |       | Pork (major part)                             |
| Beef (diminutive part)  |             |          |            |            |             |     |       |   |
|   |             |          |            |            |             |     |       |   |
|   |             |          |            |            |             |     |       |   |
|   |             |          |            |            |             |     |       | , ( - )                                       |
| The Products Containing Meat etc.   |             |          |            |            |             |     |       | The Products Containing Meat etc.             |
| Regulations (Northern Ireland) 2014 require   |             |          |            |            |             |     |       |   |
| pork sausages to contain meat from pigs only.   |             |          |            |            |             |     |       |   |
| The apparent meat content of the sample was   |             |          |            |            |             |     |       |   |
| Ards and acceptable; the level of sulphur dioxide   |             | Ards and |            |            |             |     |       |   |
| North Down THICK preservative found was not excessive.  |             |          |            |            |             |     | THICK |   |
| Borough Sections 31 PORK  |             |          |            |            | Sections 31 |     |       | ,   |
| 80200263551 Council 19/01/2017 Retailers & 43 N/A SAUSAGES DNA was extracted from the sample. Seven   | 80200263551 |          | 19/01/2017 | Retailers  |             | N/A |       | DNA was extracted from the sample. Seven      |

| Belfast City  Be |              |                         |            |                 |                     |     |                 | real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related to the total amount of determined DNA, and are given in semi-quantitative ranges:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (diminutive part)  The Products Containing Meat etc. Regulations (Northern Ireland) 2014 require pork sausages to contain meat from pigs only. The name of the product and QUID declarations provided must be amended to reflect all of the species meat used in it.  Information must be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product. |
|--|--------------|-------------------------|------------|-----------------|---------------------|-----|-----------------|---|
|  |              | D 16 1 011              |            |                 |                     |     |                 | real-time PCR assays for Bos taurus (Beef),   |
| I OUTOOCEETTEO I COUTOIT I I I I I I I I I I I I I I I I I I   | 807006224426 | Belfast City<br>Council | 17/02/2017 | urers<br>mainly | Sections 31<br>& 43 | N/A | LAMB<br>  MINCE | Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus  |

|                      |                                    |            | selling by retail                        |                     |                     |                           | gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Sheep (major part) Beef (minor part) |
|----------------------|------------------------------------|------------|--|---------------------|---------------------|---------------------------|---|
|                      |                                    |            |  |                     |                     |                           | The sample was described as "Lamb mince", and was therefore not of the substance demanded, contrary to the requirements of Article 13 Food Safety (Northen Ireland) Order 1991.   |
| 89800170037          | Blackpool<br>Council               | 31/07/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A                 | Lamb Korma                | I would expect the meat ingredient of a meat product described as 'lamb korma' to be derived only from sheep unless otherwise qualified. DNA of sheep was not detected in the sample. DNA of cow was detected in the sample. I am of the opinion that the meat of the sample was derived from cow and that the food was not of the nature demanded by the purchaser.  |
|                      |                                    |            |  | -                   |                     | PORK<br>TOULOUSE          | The sample was analysed for a range of meat species using DNA techniques. Bovine  |
| 882HQINET01<br>03619 | Bracknell Forest Unitary Authority | 07/03/2017 | Retailers                                | Sections 31<br>& 43 | Sections<br>31 & 43 | (FREE<br>RANGE<br>ENGLISH | (cattle), porcine (pig) ovine (sheep) and chicken DNA was detected in the sample.  The amount of each DNA type was quantified   |

|             |               |            |            |             |      | DODK DED  | in valeties to the energy of total energial       |
|-------------|---------------|------------|------------|-------------|------|-----------|---|
|             |               |            |            |             |      | PORK, RED | in relation to the amount of total amplified      |
|             |               |            |            |             |      | WINE,     | DNA as follows: Bovine DNA = 0.7% of total        |
|             |               |            |            |             |      | PARSLEY)  | amplified DNA Porcine DNA = 92.8% of total        |
|             |               |            |            |             |      |           | amplified DNA Ovine DNA = 5.8% of total           |
|             |               |            |            |             |      |           | amplified DNA Chicken DNA = 0.7% of total         |
|             |               |            |            |             |      |           | amplified DNA It is my opinion that a sausage     |
|             |               |            |            |             |      |           | described as an 'Pork Toulouse (English free      |
|             |               |            |            |             |      |           | range pork)' should consist only of pig meat      |
|             |               |            |            |             |      |           | unless further qualified. I am therefore of the   |
|             |               |            |            |             |      |           | further opinion that the sample is not of the     |
|             |               |            |            |             |      |           | nature demanded within the meaning of the         |
|             |               |            |            |             |      |           | Food Safety Act 1990.                             |
|             |               |            |            |             |      |           | The sample was described as 'minced lamb'.        |
|             |               |            |            |             |      |           | DNA of cow and sheep was detected in the          |
|             |               |            |            |             |      |           | sample. It was estimated that approximately       |
|             | Bury          |            |            |             |      |           | 20% of the DNA present was of cow origin          |
|             | Metropolitan  |            |            |             |      |           | which was indicative of the presence of beef.     |
|             | Borough       |            |            | Sections 31 |      | MINCED    | I am of the opinion that the food was not of      |
| 40500010597 | Council       | 14/02/2017 | Dotoiloro  | & 43        | N/A  | LAMB      | ·   |
| 40500010597 | Couricii      | 14/02/2017 | Retailers  | & 43        | IN/A | LAIVID    | the nature demanded by the purchaser.             |
|             |               |            |            |             |      |           | The sample consisted of a comminuted              |
|             |               |            |            |             |      |           | formed meat product. The sample was               |
|             |               |            |            |             |      |           | described as 'Ham'. A copy of the food            |
|             |               |            |            |             |      |           | premises menu listed 'ham' in numerous            |
|             |               |            |            |             |      |           | dishes. The sample was found to contain           |
|             |               |            |            |             |      |           | genetic material consistent with meleagris        |
|             |               |            |            |             |      |           | (turkey) only. No porcine (pork) was found        |
|             |               |            |            |             |      |           | present in the sample. However, the               |
|             |               |            |            |             |      |           | definition of 'ham' in the Concise Oxford         |
|             |               |            |            |             |      |           | English Dictionary is 'salted or smoked meat      |
|             |               |            |            |             |      |           | from the upper part of a pig's leg'. I am also of |
|             |               |            |            |             |      |           | the opinion that the association of this term     |
|             |               |            |            |             |      |           | historically with the average purchaser has       |
|             |               |            |            |             |      |           | been the 'hind leg of a pig (pork)'. The          |
|             |               |            |            |             |      |           | displayed name of a food offered for sale         |
|             |               |            |            |             |      |           | should not falsely describe that food nor be      |
|             |               |            |            |             |      |           | likely to mislead as to the nature of that food,  |
|             | Carmarthenshi |            | Manufact   |             |      |           | within the meaning of Section 15 of the Food      |
|             |               |            |            | Sections 31 |      |           |   |
| 55800170204 | Council       | 04/01/2017 | essors     | & 43        | N/A  | "HAM"     | opinion that the use of the term 'ham' without    |
|             | re County     |            | urers/proc | Sections 31 |      |           | Safety Act 1990. I am therefore, of the           |
| 33600170204 | Councii       | 04/01/2017 | essors     | Q 43        | IN/A | ПАIVI     | opinion that the use of the term hain without     |

|             |              |            |          |             |      |          | and the state of t |
|-------------|--------------|------------|----------|-------------|------|----------|--|
|             |              |            |          |             |      |          | any further accompaniment of a non-porcine   |
|             |              |            |          |             |      |          | species would be misleading to the average   |
|             |              |            |          |             |      |          | purchaser.   |
|             |              |            |          |             |      |          | The sample was described as containing "no   |
|             |              |            |          |             |      |          | peanuts".  |
|             |              |            |          |             |      |          | The sauce in the meal was analysed for the   |
|             |              |            |          |             |      |          | presence of Peanut protein; this was detected  |
|             |              |            |          |             |      |          | at a level of 3.9 mg/kg.   |
|             |              |            |          |             |      |          | I am of the opinion that this level of peanut  |
|             |              |            |          |             |      |          |  |
|             |              |            |          |             |      |          | protein could be sufficient to induce an   |
|             |              |            |          |             |      |          | allergenic reaction in a susceptible person,   |
|             |              |            |          |             |      |          | referencing the European Food Safety   |
|             |              |            |          |             |      |          | Authority document "Scientific Opinion on the  |
|             |              |            |          |             |      |          | evaluation of allergenic foods and food  |
|             |              |            |          |             |      |          | ingredients for labelling purposes".   |
|             |              |            |          |             |      |          | In my opinion the use of the statement "no   |
|             |              |            |          |             |      |          | peanuts" to describe a food containing 3.9   |
|             |              |            |          |             |      |          | milligrams per kilogram peanut is likely to  |
|             |              |            |          |             |      |          | mislead as the substance of the food.  |
|             |              |            |          |             |      |          | This is due to a section of the food.  |
|             |              |            |          |             |      |          | DNA was extracted from the meat in the   |
|             |              |            |          |             |      |          | sample. Seven real-time PCR assays for Bos   |
|             |              |            |          |             |      |          | taurus (Beef), Sus scrofa (Pork), Ovis aries   |
|             |              |            |          |             |      |          |  |
|             |              |            |          |             |      |          | (Sheep), Capra hircus (Goat), Equus caballus   |
|             |              |            |          |             |      |          | (Horse), Gallus gallus (Chicken) and   |
|             |              |            |          |             |      |          | Meleagris gallopavo (Turkey) were then   |
|             |              |            |          |             |      |          | applied to detect and measure the amount of  |
|             |              |            |          |             |      |          | those animal species present.  |
|             |              |            |          |             |      |          |  |
|             |              |            |          |             |      |          | The measurement is semi-quantitative, and  |
|             |              |            |          |             |      |          | estimates from the detected signals the  |
|             |              |            |          |             |      |          | amount of DNA present for all tested species   |
|             |              |            |          |             |      |          | and each individual species in bands as  |
|             |              |            |          |             |      |          | follows:   |
|             |              |            |          |             |      |          | Major part (60 - 100%)   |
|             |              |            | Restaura |             |      | LAMB     | Medium part (30 - 60%)   |
|             | Cheshire and |            | nts and  |             |      | KORMA -  | Minor part (5 - 30%)   |
|             | West Chester |            | other    | Sections 31 |      | NO<br>NO | Diminutive part (1 - 5%)   |
| 70400000045 |              | 22/02/2047 |          |             | NI/A |          |  |
| 70400020345 | Council      | 22/03/2017 | Caterers | & 43        | N/A  | PEANUTS  | Very diminutive part (<1%).  |

|             |                              | 1          |                              | 1           | ı   | I                     |   |
|-------------|------------------------------|------------|------------------------------|-------------|-----|-----------------------|---|
|             |                              |            |                              |             |     |                       | The following species was detected in the sample: Beef (major part).  Lamb was not detected.  |
|             |                              |            |                              |             |     |                       | On this basis I am of the opinion that the species description "Lamb" applied to the curry is false and misleading.   |
|             |                              |            |                              |             |     |                       | The sauce in the meal was analysed for the presence of Peanut protein; this was not detected using a test method with a limit of detection of 1 mg/kg.  |
|             |                              |            |                              |             |     |                       | DNA was extracted from the meat in the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. |
|             |                              |            |                              |             |     |                       | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%)  Medium part (30 - 60%)  Minor part (5 - 30%)   |
|             |                              |            |                              |             |     |                       | Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|             | Cheshire and<br>West Chester |            | Restaura<br>nts and<br>other | Sections 31 |     | LAMB<br>KORMA -<br>NO | The following species was detected in the sample: Beef (major part).  |
| 70400020342 | Council                      | 22/03/2017 | Caterers                     | & 43        | N/A | PEANUTS               | Deer (major part).  |

|             |               |            |           |             |      |        | Lamb was not detected.   |
|-------------|---------------|------------|-----------|-------------|------|--------|--|
|             |               |            |           |             |      |        |  |
|             |               |            |           |             |      |        | On this basis I am of the opinion that the   |
|             |               |            |           |             |      |        | species description "Lamb" applied to the  |
|             |               |            |           |             |      |        | curry is false and misleading.   |
|             |               |            |           |             |      |        | The above results showed that the meat had   |
|             |               |            |           |             |      |        | a total volatile nitrogen (TVN) content of 21                                      |
|             |               |            |           |             |      |        | milligrams of nitrogen per 100g of meat. The                                       |
|             |               |            |           |             |      |        | TVN is an index of degradation of the  |
|             |               |            |           |             |      |        | nitrogenous components of the meat. Fresh  |
|             |               |            |           |             |      |        | meat does not normally have a TVN content  |
|             |               |            |           |             |      |        | in excess of 17 milligrams of nitrogen per 100g; the result for this sample was    |
|             |               |            |           |             |      |        | borderline. Species determination carried out                                      |
|             |               |            |           |             |      |        | via DNA extraction followed by RT-PCR gave   |
|             |               |            |           |             |      |        | positive results for sheep (Ovis aries), cow                                       |
|             |               |            |           |             |      |        | (Bos taurus), and chicken (Gallus gallus)  |
|             |               |            |           |             |      |        | species in this sample; pig (Sus scrofa) goat                                      |
|             |               |            |           |             |      |        | (Capra hircus) and horse (Equus caballus)  |
|             |               |            |           |             |      |        | species results were negative. Sheep was   |
|             |               |            |           |             |      |        | the main meat component of the food; cow   |
|             |               |            |           |             |      |        | DNA was present at level greater than 1%   |
|             |               |            |           |             |      |        | and chicken DNA was present at a level of  |
|             |               |            |           |             |      |        | less than 1% but greater than 0.1%. In my  |
|             |               |            |           |             |      |        | opinion, the presence of cow and chicken   |
|             |               |            |           |             |      |        | DNA in lamb mince renders the food not of  |
|             |               |            |           |             |      |        | the substance demanded by the purchaser  |
|             |               |            |           |             |      |        | contrary to the requirements of the Food   |
|             | 0 , 0;        |            |           | 0 11 04     |      |        | Safety Act 1990. I further certify that the  |
| 40700070550 | Coventry City | 40/07/0047 | Datailana | Sections 31 | NI/A | LAMB   | sample had undergone no change that would  |
| 40700070550 | Council       | 13/07/2017 | Retailers | & 43        | N/A  | MINCE  | affect my results, opinion or observations.  |
|             |               |            |           |             |      |        | The above results showed that the meat had   |
|             |               |            |           |             |      |        | a total volatile nitrogen (TVN) content of 32                                      |
|             |               |            |           |             |      |        | milligrams of nitrogen per 100g of meat. The TVN is an index of degradation of the |
|             |               |            | Restaura  |             |      |        | nitrogenous components of the meat. Freshly  |
|             |               |            | nts and   |             |      | LAMB   | cooked meat does not normally have a TVN   |
|             | Coventry City |            | other     | Sections 31 |      | SHEESH | content in excess of 17 milligrams of nitrogen                                     |
| 40700070514 | Council       | 04/07/2017 | Caterers  | & 43        | N/A  | KEBAB  | per 100g; the result for this sample was   |

|             |            |            |          |             |      |            | unsatisfactory and indicated that some          |
|-------------|------------|------------|----------|-------------|------|------------|---|
|             |            |            |          |             |      |            | degradation of the meat had occurred. In my     |
|             |            |            |          |             |      |            | opinion, the high TVN level of the meat         |
|             |            |            |          |             |      |            | renders the food not of the quality demanded    |
|             |            |            |          |             |      |            | by the purchaser contrary to the requirements   |
|             |            |            |          |             |      |            | of the Food Safety Act 1990. Species            |
|             |            |            |          |             |      |            | determination carried out via DNA extraction    |
|             |            |            |          |             |      |            | followed by RT-PCR gave positive results for    |
|             |            |            |          |             |      |            | sheep (Ovis aries), cow (Bos taurus) and        |
|             |            |            |          |             |      |            | chicken (Gallus gallus) species in this sample; |
|             |            |            |          |             |      |            | pig (Sus scrofa), goat (Capra hircus) and       |
|             |            |            |          |             |      |            | horse (Equus caballus) species results were     |
|             |            |            |          |             |      |            | negative. Sheep was the main meat               |
|             |            |            |          |             |      |            | component of the food but both chicken DNA      |
|             |            |            |          |             |      |            | and cow DNA were present at levels greater      |
|             |            |            |          |             |      |            | than 1%. In my opinion, the presence of         |
|             |            |            |          |             |      |            | chicken and cow DNA in a sample described       |
|             |            |            |          |             |      |            | as 'Lamb Sheesh Kebab' renders the food not     |
|             |            |            |          |             |      |            | of the substance demanded by the purchaser      |
|             |            |            |          |             |      |            | contrary to the requirements of the Food        |
|             |            |            |          |             |      |            | Safety Act 1990. I further certify that the     |
|             |            |            |          |             |      |            | sample had undergone no change that would       |
|             |            |            |          |             |      |            | affect my results, opinion or observations.     |
|             |            |            |          |             |      |            | The sample consisted of a curried meal          |
|             |            |            |          |             |      |            | purchased as a lamb based meal.                 |
|             |            |            |          |             |      |            |   |
|             |            |            |          |             |      |            | Analysis of DNA extracted from the sample       |
|             |            |            |          |             |      |            | showed it to consist entirely of beef with no   |
|             |            |            |          |             |      |            | significant amount of sheep meat being          |
|             |            |            |          |             |      |            | detected. I am therefore of the opinion that    |
|             |            |            |          |             |      |            | the sample was not of the substance             |
|             |            |            |          |             |      |            | demanded, contrary to the requirements of       |
|             |            |            |          |             |      |            | Section 14 of the Food Safety Act 1990.         |
|             |            |            |          |             |      | MEAT USED  |   |
|             |            |            | D        |             |      | TO         | The following scale is used to indicate the     |
|             | D. J. J.   |            | Restaura |             |      | PREPARE    | proportion of DNA in the total DNA measured.    |
|             | Derbyshire |            | nts and  | 0           |      | LAMB TIKKA | Main and (00 4000()                             |
| 0040000000  | County     | 47/04/0047 | other    | Sections 31 | NI/A | MASALA     | Major part (60-100%)                            |
| 06100020069 | Council    | 17/01/2017 | Caterers | & 43        | N/A  | MEAL       | Medium part (30-60%)                            |

|             |                                 |            |  |                     |     |                      | Minor parts (5-30%) Diminutive part (1-5%) Very diminutive parts (<1%) (detected but below the reporting limit of the method) Not detected The sample consisted of a curried meal purchased as a lamb based meal.  Analysis of DNA extracted from the sample showed it to consist entirely of beef with no significant amount of sheep meat being  |
|-------------|---------------------------------|------------|--|---------------------|-----|----------------------|--|
| 06100020066 | Derbyshire<br>County<br>Council | 17/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB TIKKA<br>MASALA | detected. I am therefore of the opinion that the sample was not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.  The following scale is used to indicate the proportion of DNA in the total DNA measured.  Major part (60-100%) Medium part (30-60%) Minor parts (5-30%) Diminutive part (1-5%) Very diminutive parts (<1%) (detected but below the reporting limit of the method) Not detected |
| 07102530027 | Devon County<br>Council         | 14/03/2017 |  | Sections 31<br>& 43 | N/A | MINCE<br>LAMB        | The sample consisted of minced meat described as "Mince Lamb".  There was no indication of an excess of collagen or added water, however the fat content was very high to the degree of being excessive when compared to typical figures derived from surveys.  Analysis of DNA extracted from the meat showed it to consist principally of sheep meat, but that a significant amount of beef was also present.                                    |

| The Food Standards Agency advice is values above 1% be regarded as deli addition and values below as adventit contamination.  The sample contained an excess of b 5%) and and fat and was therefore no substance demanded, contrary to the requirements of Section 14 of the Food Act 1990. | berate<br>ious<br>eef (1-<br>ot of the |
|---|--|
|   |  |
| The following scale is used to indicate proportion of DNA in the total DNA medium part (60-100%) Medium part (30-60%) Minor parts (5-30%) Diminutive part (1-5%) Very diminutive parts (<1%) (detected below the reporting limit of the method  | easured.<br>I but                      |
| Not detected  DNA was extracted from the meat in the sample. Seven real-time PCR assays taurus (Beef), Sus scrofa (Pork), Ovis (Sheep), Capra hircus (Goat), Equus  | for Bos<br>aries                       |
| (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were the applied to detect and measure the am those animal species present.   |  |
| Dudley Metropolitan  The measurement is semi-quantitative estimates from the detected signals the amount of DNA present for all tested and each individual species in bands follows:  | ne<br>species                          |
| Borough   |  |

|             |         |            |            |             |      |         | Medium part (30 - 60%)                        |
|-------------|---------|------------|------------|-------------|------|---------|---|
|             |         |            |            |             |      |         | Minor part (50 - 80%)                         |
|             |         |            |            |             |      |         | Diminutive part (1 - 5%)                      |
|             |         |            |            |             |      |         |   |
|             |         |            |            |             |      |         | Very diminutive part (<1%)                    |
|             |         |            |            |             |      |         | The following species were detected in the    |
|             |         |            |            |             |      |         | sample:                                       |
|             |         |            |            |             |      |         | Beef (major part)                             |
|             |         |            |            |             |      |         | Sheep was not detected.                       |
|             |         |            |            |             |      |         |   |
|             |         |            |            |             |      |         | The sample was described as 'Lamb             |
|             |         |            |            |             |      |         | Passanda'. The meat in the sample consisted   |
|             |         |            |            |             |      |         | of beef and did not contain any lamb. In my   |
|             |         |            |            |             |      |         | opinion lamb passanda should be made with     |
|             |         |            |            |             |      |         | lamb meat.                                    |
|             |         |            |            |             |      |         |   |
|             |         |            |            |             |      |         | I am therefore of the opinion that the sample |
|             |         |            |            |             |      |         | was not of the nature demanded by the         |
|             |         |            |            |             |      |         | purchaser.                                    |
|             |         |            |            |             |      |         | The sample consisted of a meat product        |
|             |         |            |            |             |      |         | described as "pork sausage".                  |
|             |         |            |            |             |      |         | The Products Containing Meat etc (England)    |
|             |         |            |            |             |      |         | Regulations 2014 require the meat portion of  |
|             |         |            |            |             |      |         | a food described as pork sausage to consist   |
|             |         |            |            |             |      |         | entirely of pork. Food Standards Agency       |
|             |         |            |            |             |      |         | advice is that values above 1% should be      |
|             |         |            |            |             |      |         | regarded as deliberate addition. Analysis of  |
|             |         |            |            |             |      |         | DNA extracted from the meat portion of the    |
|             |         |            |            |             |      |         | sample showed it to consist of pork with      |
|             |         |            |            |             |      |         | significant amounts of beef and sheep (above  |
|             |         |            |            |             |      |         | 1%), contrary to the requirements of the      |
|             |         |            |            |             |      |         | Regulations.                                  |
|             |         |            |            |             |      |         |   |
|             |         |            |            |             |      |         |   |
|             |         |            |            |             |      |         | The following scale is used to indicate the   |
|             | Durham  |            | Manufact   | 0           |      | DODIC   | proportion of DNA in the total DNA measured.  |
| 0040000044  | County  | 04/04/0047 | urers/proc | Sections 31 | NI/A | PORK    | Maior most (00 4000()                         |
| 09100630011 | Council | 24/01/2017 | essors     | & 43        | N/A  | SAUSAGE | Major part (60-100%)                          |

|             |                                    |            |  |                     |                     |                        | Medium part (30-60%) Minor parts (5-30%) Diminutive part (1-5%) Very diminutive parts (<1%) (detected but below the reporting limit of the method)  |
|-------------|------------------------------------|------------|--|---------------------|---------------------|------------------------|---|
| 89500300131 | Hereford City<br>Council           | 25/01/2017 | Materials<br>and<br>Articles<br>Manufact<br>urers and<br>Suppliers | Sections 31<br>& 43 | Sections<br>31 & 43 | LAMB<br>DONER<br>KEBAB | Not detected  The sample was analysed for a range of meat species using DNA techniques. Bovine (cattle) and ovine (sheep) DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 17.7% of total amplified DNA Ovine DNA = 82.3% of total amplified DNA It is my opinion that a sample described as 'lamb doner' should consist only of lamb meat unless further qualified.  |
| 15400067269 | Hertfordshire<br>County<br>Council | 07/03/2017 | Restaura<br>nts and<br>other<br>Caterers                           | Sections 31<br>& 43 | Sections<br>31 & 43 | LAMB<br>DONOR<br>KEBAB | The sample was described as 'Lamb Doner Kebab'. The results show that the sample contains sheep, beef, pork and chicken meat. The amount of sheep and beef meat equated to greater than 10 per cent of the meat and the quantity of pork and poultry present was1.5% and 4.1% respectively. In my opinion the amounts of beef, pork and poultry meat present is consistent with deliberate inclusion. In my opinion a lamb doner kebab must only contain sheep meat. I am therefore of the opinion that the sample is not of the nature demanded by a purchaser within the meaning of Section 14 of The Food Safety Act 1990. |
| 17800490044 | Kent County<br>Council             | 16/03/2017 | Retailers  | Sections 31<br>& 43 | N/A                 | MINCED<br>LAMB         | Approximately 20% of the DNA extracted from the sample was of cow origin which was indicative of the presence of meat derived from cow. I am of the opinion that food described as 'minced lamb' should not contain meat derived from cow and that the food was falsely described.  |

|             |                        |            |  |                     |     |                       | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level of greater than 10% and poultry meat was found at 1%. The level of poultry was consistent with contamination or poor handling practices rather than deliberate inclusion. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence of beef and   |
|-------------|------------------------|------------|--|---------------------|-----|-----------------------|---|
|             | Kont County            |            |  | Sections 31         |     | MINCED                | poultry renders the sample not of the   |
| 17800460537 | Kent County<br>Council | 10/03/2017 | Retailers                                | & 43                | N/A | LAMB                  | substance demanded within the meaning of section 14 of the Food Safety Act 1990.  |
| 17800490010 | Kent County<br>Council | 14/03/2017 | Retailers                                | Sections 31<br>& 43 | N/A | LAMB<br>MINCE         | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, pork meat was found at a level of greater than 10% and beef meat was found at 1%. The level of beef was consistent with contamination or poor handling practices rather than deliberate inclusion. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence of beef and pork renders the sample not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990. |
| 17800300168 | Kent County<br>Council | 25/05/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB TIKKA<br>MASSALA | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Sheep meat was present but beef muscle meat protein was also detected at a level less than 2% but greater than 1%. In my opinion, the product should contain lamb meat only and therefore the presence of beef meat renders the sample   |

|               |                        |            |                              |                     |      |                 | not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990.   |
|---------------|------------------------|------------|------------------------------|---------------------|------|-----------------|---|
| 17800460574   | Kent County<br>Council | 25/03/2017 | Retailers                    | Sections 31<br>& 43 | N/A  | MINCED<br>LAMB  | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level of 18.6% and pork meat was found at 9%. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence of beef and pork renders the sample not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990. |
| 17 000 1000 1 | Council                | 25/66/2011 | rtotalioro                   |                     | 14// | L IIII          | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level greater than 10%. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence   |
| 17800460543   | Kent County<br>Council | 10/03/2017 | Retailers                    | Sections 31<br>& 43 | N/A  | MINCED<br>LAMB  | of beef renders the sample not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990.  |
| 47000470004   | Kent County            | 00/00/0047 | Restaura<br>nts and<br>other | Sections 31         | NVA  | BALTI<br>ACHARI | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Both sheep and beef meat were detected in the sample based on the analysis carried out. In my opinion, a product described as 'Balti Achari Lamb' should contain sheep meat only and therefore the sample was not of the substance demanded within the meaning of section 14 of  |
| 17800470061   | Council                | 08/06/2017 | Caterers                     | & 43                | N/A  | LAMB            | the Food Safety Act 1990.   |

|             |                        |            | Restaura<br>nts and |                     |      | LAMP           | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Both sheep and beef meat were detected in the sample based on the analysis carried out. In my opinion, a product described as 'Lamb Curry' should contain sheep meat only and therefore the sample was not of the substance demanded  |
|-------------|------------------------|------------|---------------------|---------------------|------|----------------|--|
| 17800470058 | Kent County<br>Council | 08/06/2017 | other<br>Caterers   | Sections 31<br>& 43 | N/A  | LAMB<br>CURRY  | within the meaning of section 14 of the Food Safety Act 1990.  |
| 17000470036 | Council                | 00/00/2017 | Calefels            | Q 43                | IN/A | CURRI          | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level greater than 10%. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence of beef renders the sample not of the  |
|             | Kent County            |            |                     | Sections 31         |      | MINCED         | substance demanded within the meaning of   |
| 17800460513 | Council                | 10/03/2017 | Retailers           | & 43                | N/A  | LAMB           | section 14 of the Food Safety Act 1990.  |
| 17800490028 | Kent County<br>Council | 14/03/2017 | Retailers           | Sections 31<br>& 43 | N/A  | Minced Lamb    | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level of 5.7% and pork meat was found at 7.3%. In my opinion, a product described as 'minced lamb' should contain sheep meat only and therefore the presence of beef and pork renders the sample not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990.  UNSATISFACTORY - Composition The |
| 17000460504 | Kent County            | 10/03/2017 | Deteilers           | Sections 31<br>& 43 | N/A  | MINCED<br>LAMB | analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat  |
| 17800460531 | Council                | 10/03/2017 | Retailers           | a 43                | IN/A | LAIVID         | was detected, beef and pork meat were both   |

|             |             |            |            | ı           | 1   |            |   |
|-------------|-------------|------------|------------|-------------|-----|------------|---|
|             |             |            |            |             |     |            | found at a level greater than 10%. In my      |
|             |             |            |            |             |     |            | opinion, a product described as 'minced lamb' |
|             |             |            |            |             |     |            | should contain sheep meat only and therefore  |
|             |             |            |            |             |     |            | the presence of beef and pork renders the     |
|             |             |            |            |             |     |            | sample not of the substance demanded within   |
|             |             |            |            |             |     |            | the meaning of section 14 of the Food Safety  |
|             |             |            |            |             |     |            | Act 1990.                                     |
|             |             |            |            |             |     |            | UNSATISFACTORY - Composition The              |
|             |             |            |            |             |     |            | analysis of the sample was sub-contracted to  |
|             |             |            |            |             |     |            | Hampshire Scientific Service and their report |
|             |             |            |            |             |     |            | is transmitted as a pdf. Although sheep meat  |
|             |             |            |            |             |     |            | was detected, beef meat was found at a level  |
|             |             |            |            |             |     |            | of greater than 10% and pork meat was found   |
|             |             |            |            |             |     |            | at 2.1%. The level of pork was consistent     |
|             |             |            |            |             |     |            | with contamination or poor handling practices |
|             |             |            |            |             |     |            | rather than deliberate inclusion. In my       |
|             |             |            |            |             |     |            | opinion, a product described as 'minced lamb' |
|             |             |            |            |             |     |            | should contain sheep meat only and therefore  |
|             |             |            |            |             |     |            | the presence of beef and pork renders the     |
|             |             |            |            |             |     |            | sample not of the substance demanded within   |
|             | Kent County |            |            | Sections 31 |     | MINCED     | the meaning of section 14 of the Food Safety  |
| 17800460540 | Council     | 10/03/2017 | Retailers  | & 43        | N/A | LAMB       | Act 1990.                                     |
|             |             |            |            |             |     |            | The sample was described as 'Lamb balti'.     |
|             |             |            |            |             |     |            | DNA of cow was detected in the sample. DNA    |
|             |             |            |            |             |     |            | of sheep was not detected in the sample. The  |
|             |             |            |            |             |     |            | results of analysis were consistent with the  |
|             | Lancashire  |            | Manufact   |             |     |            | meat in the food being derived from cow I am  |
|             | County      |            | urers/proc | Sections 31 |     |            | of the opinion that the food was falsely      |
| 19301220074 | Council     | 09/05/2017 | essors     | & 43        | N/A | LAMB BALTI | described.                                    |
|             |             |            |            |             |     |            | UNSATISFACTORY - Composition The              |
|             |             |            |            |             |     |            | specimen consisted of red minced meat which   |
|             |             |            |            |             |     |            | was contained within an unmarked plastic      |
|             |             |            |            |             |     |            | bag. This in turn was contained within a      |
|             |             |            |            |             |     |            | sealed plastic bag with an intact seal coded  |
|             |             |            |            |             |     |            | L02581. The analysis of the sample was sub-   |
|             |             |            |            |             |     |            | contracted to Hampshire Scientific Service    |
|             | London      |            |            |             |     |            | and their report is transmitted as a pdf.     |
|             | Borough of  |            |            | Sections 31 |     | MINCED     | Sheep meat was detected but beef meat was     |
| 50500240195 | Bromley     | 01/06/2017 | Retailers  | & 43        | N/A | LAMB       | also present at a level greater than 10%. In  |

|             |                | ı          | 1        | I           | T   | I              |   |
|-------------|----------------|------------|----------|-------------|-----|----------------|---|
|             |                |            |          |             |     |                | my opinion, a food described as 'Minced   |
|             |                |            |          |             |     |                | Lamb' should contain sheep meat only. The   |
|             |                |            |          |             |     |                | presence of beef meat renders the food not  |
|             |                |            |          |             |     |                | for the substance demanded by the purchaser   |
|             |                |            |          |             |     |                | within the meaning of section 14 of the Food  |
|             |                |            |          |             |     |                | Safety Act 1990.  |
|             |                |            |          |             |     |                | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.  The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as |
|             |                |            |          |             |     |                | follows:  |
|             |                |            |          |             |     |                | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|             |                |            |          |             |     |                | The following species were detected in the sample:  |
|             |                |            |          |             |     |                | Sheep (major part)  |
|             |                |            |          |             |     |                | Chicken (diminutive part)   |
|             |                |            |          |             |     |                | Beef (minor part)   |
|             |                |            |          |             |     |                |   |
|             |                |            | Restaura |             |     | Minced lamb    | In my opinion, the meat present in a sample   |
|             |                |            | nts and  |             |     | prepared       | described as 'minced lamb prepared with a   |
|             | Norfolk County |            | other    | Sections 31 |     | with a variety | variety of spices' should consist solely of   |
| 22600752690 | Council        | 15/03/2017 | Caterers | & 43        | N/A | of spices      | sheep meat. Consequently, I am of the   |

|             |                           |            |           |                     |                     |            | opinion that the sample was not of the substance demanded.  |
|-------------|---------------------------|------------|-----------|---------------------|---------------------|------------|---|
|             |                           |            |           |                     |                     |            | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. |
|             |                           |            |           |                     |                     |            | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:   |
|             |                           |            |           |                     |                     |            | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|             |                           |            |           |                     |                     |            | The following species were detected in the sample:  |
|             |                           |            |           |                     |                     |            | Turkey (major part) Pig (minor part) Beef (very diminutive part)  |
|             |                           |            |           |                     |                     |            | The following species were detected in a repeat analysis:   |
|             |                           |            |           |                     |                     |            | Turkey (medium part) Pig (major part) Beef (very diminutive part)   |
| 22600752737 | Norfolk County<br>Council | 27/04/2017 | Retailers | Sections 31<br>& 43 | Sections<br>31 & 43 | Lamb Kebab | The difference in species ratios may be due to inhomogeneity in the sample.   |

|             |                         |            |           |             |     |             | In my opinion, the meat present in a sample described as 'lamb kebab ' should consist solely of sheep meat. Consequently, I am of the opinion that the sample was not of the nature demanded.  |
|-------------|-------------------------|------------|-----------|-------------|-----|-------------|--|
|             |                         |            |           |             |     |             | Peanut was not detected in the sample above the quoted limit of quantification.  |
|             |                         |            |           |             |     |             | As a result of the analysis, I am of the opinion that the sample contained egg white protein.  |
|             |                         |            |           |             |     |             | Consequently, I am of the opinion that the sample is potentially harmful to consumers who are allergic to egg white protein.   |
|             |                         |            |           |             |     |             | Under the terms of the Food Information Regulations 2014 which provide for the execution and enforcement of Regulation (EU) No. 1169/2011 on the provision of food information to consumers, the provision of information on the presence of eggs in food which is prepacked for direct sale is mandatory. |
|             |                         |            |           |             |     |             | The labelling present on the sample did not include any information on the presence of eggs.   |
|             | Oldham                  |            |           |             |     |             | UNSATISFACTORY - Composition The analysis of the sample was sub-contracted to Hampshire Scientific Service and their report is transmitted as a pdf. Although sheep meat was detected, beef meat was found at a level  |
|             | Metropolitan<br>Borough |            |           | Sections 31 |     |             | of 6.2%. In my opinion, a product described as 'minced lamb' should contain sheep meat   |
| 41800120677 | Council                 | 28/02/2017 | Retailers | & 43        | N/A | Minced Lamb | only and therefore the presence of beef  |

|             |  |            |                      |                            |                     |                    | renders the food not of the substance demanded within the meaning of section 14 of  |
|-------------|--|------------|----------------------|----------------------------|---------------------|--------------------|---|
| 41800260038 | Oldham<br>Metropolitan<br>Borough<br>Council | 28/03/2017 | Primary<br>Producers | Albion Farm<br>Shop & Cafe | N/A                 | LAMB<br>MINCE      | the Food Safety Act 1990.  The sample was described as 'lamb mince'.  DNA of cow and sheep was detected in the sample. It was estimated that approximately equal amounts of cow and sheep DNA were present which was indicative of the presence of beef. I am of the opinion that the food was falsely described. |
| 41800120714 | Oldham<br>Metropolitan<br>Borough<br>Council | 01/03/2017 | Retailers            | Sections 31<br>& 43        | Sections<br>31 & 43 | 250G LAMB<br>MINCE | The sample was described as 'lamb mince'. DNA of cow and sheep was detected in the sample. It was estimated that approximately 40% of the DNA present was of cow origin which was indicative of the presence of beef. I am of the opinion that the food was falsely described.                                    |
| 41800120899 | Oldham<br>Metropolitan<br>Borough<br>Council | 13/03/2017 | Retailers            | Sections 31<br>& 43        | Sections<br>31 & 43 | 250G LAMB<br>MINCE | The sample was described as 'lamb mince'. DNA of cow, chicken and sheep was detected in the sample. The amount of beef was estimated as approximately 20% and the amount of chicken was estimated as approximately 5%. I am of the opinion that the food was falsely described.                                   |
| 41800260054 | Oldham<br>Metropolitan<br>Borough<br>Council | 04/07/2017 | Retailers            | Sections 31<br>& 43        | N/A                 | MINCED<br>LAMB     | Approximately 10% of the DNA extracted from the sample was of cow origin which was indicative of the presence of meat derived from cow. I am of the opinion that food described as 'minced lamb' should not contain meat derived from cow and that the food was falsely described.                                |
| 41800120680 | Oldham<br>Metropolitan<br>Borough<br>Council | 28/02/2017 | Retailers            | Sections 31<br>& 43        | Sections<br>31 & 43 | MINCED<br>LAMB     | The sample was described as 'minced lamb'.  DNA of cow and sheep was detected in the sample. It was estimated that approximately equal amounts of cow and sheep DNA were present which was indicative of the presence of beef. I am of the opinion that the food was falsely described.                           |

| 41800260034 | Oldham<br>Metropolitan<br>Borough<br>Council | 28/03/2017 | Retailers                    | Sections 31<br>& 43 | N/A | MINCED<br>LAMB | Approximately 5% of the DNA extracted from the sample was of cow origin which was indicative of the presence of meat derived from cow. I am of the opinion that food described as 'minced lamb' should not contain meat derived from cow and that the food was falsely described.   |
|-------------|--|------------|------------------------------|---------------------|-----|----------------|---|
| 41800250018 | Oldham<br>Metropolitan<br>Borough<br>Council | 19/04/2017 | Retailers                    | Sections 31<br>& 43 | N/A | LAMB<br>MINCE  | Approximately 20% of the DNA extracted from the sample was of cow origin which was indicative of the presence of meat derived from cow and approximately 5% of the DNA extracted from the sample was of pig origin which was indicative of the presence of meat derived from pig. I am of the opinion that food described as 'minced lamb' should not contain meat derived from cow or pig and that the food was falsely described.   |
| 41800120723 | Oldham<br>Metropolitan<br>Borough<br>Council | 02/03/2017 | Retailers                    | Totties<br>Butchers | N/A | MINCED<br>LAMB | The sample was described as 'lamb mince'. DNA of cow and sheep was detected in the sample. It was estimated that approximately 40% of the DNA present was of cow origin which was indicative of the presence of beef. I am of the opinion that the food was falsely described.  |
| 567HQ228800 | Rhondda<br>Cynon Taf<br>County<br>Borough    |            | Restaura<br>nts and<br>other | Sections 31         |     | LAMB<br>DONER  | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) |
| 04157       | Council                                      | 09/02/2017 | Caterers                     | & 43                | N/A | KEBAB          | Medium part (30 - 60%)  |

|             |                     |            |                  |             |     |       | Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Sheep (major part) Beef (minor part)  The sample was described as "Lamb Doner Kebab", and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.  |
|-------------|---------------------|------------|------------------|-------------|-----|-------|---|
|             |                     |            |                  |             |     |       | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) |
|             |                     |            |                  |             |     |       | Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|             | Rhondda             |            | Postours         |             |     |       | The following species were detected in the sample:  |
|             | Cynon Taf<br>County |            | Restaura nts and |             |     | LAMB  | Beef (major part) Sheep (minor part)  |
| 567HQ228800 | Borough             |            | other            | Sections 31 |     | SHEEK | Chicken (diminutive part)   |
| 04277       | Council             | 23/03/2017 | Caterers         | & 43        | N/A | KEBAB | omonom (ammutavo part)  |

| The sample was described as "Lamb sheek kebab", and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and |
|---|
| substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo   |
| requirements of Section 14 of the Food Safety Act 1990.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo   |
| Act 1990.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo   |
| DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo  |
| real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo   |
| Sus scrofa (Pork), Óvis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo   |
| hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo  |
| gallus (Chicken) and Meleagris gallopavo  |
|   |
| (Turkey) were then applied to detect and  |
|   |
| measure the amount of those animal species  |
| present. The measurement is semi-   |
| quantitative, and estimates from the detected   |
| signals the amount of DNA present for all   |
| tested species and each individual species in   |
| bands as follows:   |
| Major part (60 - 100%)  |
| Medium part (30 - 60%)  |
| Minor part (5 - 30%)  |
| Diminutive part (1 - 5%)  |
| Very diminutive part (<1%).   |
| very diminutive part (<170).  |
| The following species were detected in the  |
| sample:   |
| Beef (major part)   |
| Sheep (minor part)  |
| Chicken (very diminutive part)  |
| Rhondda   |
| Cynon Taf Restaura The sample was described as "Lamb Sheek",  |
| County nts and and was therefore not of the substance   |
| 567HQ228800 Borough other Sections 31 LAMB demanded, contrary to the requirements of  |
| 04184   Council   14/02/2017   Caterers   & 43   N/A   SHEEK   Section 14 of the Food Safety Act 1990.  |
| Rhondda DNA was extracted from the sample. Seven  |
| Cynon Taf Restaura real-time PCR assays for Bos taurus (Beef),  |
| County nts and LAMB Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
| 567HQ228800 Borough other Sections 31 SHEEK hircus (Goat), Equus caballus (Horse), Gallus   |
| 04149 Council 01/02/2017 Caterers & 43 N/A KEBAB gallus (Chicken) and Meleagris gallopavo   |

|                      |  |            |  |                     |     |                        | (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|----------------------|--|------------|--|---------------------|-----|------------------------|--|
|                      |  |            |  |                     |     |                        | The following species were detected in the sample: Beef (major part) Sheep (minor part) Chicken (minor part) The sample was described as "Lamb Sheek Kebab", and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety  |
| 567HQ228800<br>04163 | Rhondda<br>Cynon Taf<br>County<br>Borough<br>Council | 09/02/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB<br>DONER<br>KEBAB | Act 1990.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) |

|                      |                            |            |  |                     |                     |                 | Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%)   |
|----------------------|----------------------------|------------|--|---------------------|---------------------|-----------------|--|
|                      |                            |            |  |                     |                     |                 | Very diminutive part (<1%).  |
|                      |                            |            |  |                     |                     |                 | The following species were detected in the sample: Sheep (major part)  |
|                      |                            |            |  |                     |                     |                 | Beef (diminutive part)   |
|                      |                            |            |  |                     |                     |                 | The sample was described as "Lamb Doner Kebab", and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.   |
| 42400310169          | Sefton District<br>Council | 16/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | Sections<br>31 & 43 | KOFTE<br>KEBAB  | The sample was described as 'Kofte kebab'. Information from the menu at the point of sale supplied with the sample indicated that lamb was the only meat ingredient. Equal quantities of DNA of cow and sheep were detected in the sample. Chicken DNA was also detected at the limit of detection of 0.1%. The results of analysis were consistent with the product containing equal quantities of meat derived from cow and sheep. I am of the opinion that the food was falsely described |
|                      | Staffordshire              | 13.33.2311 |  |                     |                     | LAMB            | Species determination carried out via DNA extraction followed by RT-PCR gave positive results for sheep (Ovis aries), cow (Bos taurus) and chicken (Gallus gallus) species in this sample; pig (Sus scrofa), goat (Capra hircus) and horse (Equus caballus) species results were negative. Cow and chicken were both major components (>5% each) of the sample. The product was described as 'Lamb Kebab Rounds'. In my opinion, the presence  |
| 286HQ271800<br>03079 | County<br>Council          | 24/01/2017 | Retailers                                | Sections 31<br>& 43 | N/A                 | KEBAB<br>ROUNDS | of chicken and cow DNA in a product described as 'Lamb Kebab Rounds' renders   |

|             |          |            |          |             |      |            | the food not of the substance demanded by      |
|-------------|----------|------------|----------|-------------|------|------------|--|
|             |          |            |          |             |      |            |  |
|             |          |            |          |             |      |            | the purchaser contrary to the requirements of  |
|             |          |            |          |             |      |            | the Food Safety Act 1990.                      |
|             |          |            |          |             |      |            | Analysis indicates that the sample contains    |
|             |          |            |          |             |      |            | sheep meat, approximately 1% poultry meat      |
|             |          |            |          |             |      |            | and in excess of 10% beef meat. The sample     |
|             |          |            |          |             |      |            | was described as 'Small Lamb Doner'. In my     |
|             |          |            |          |             |      |            | opinion a lamb doner kebab must only contain   |
|             |          |            |          |             |      |            | sheep meat. I am therefore of the opinion that |
|             |          |            |          |             |      |            | the sample is not of the nature demanded by    |
|             |          |            |          |             |      |            | a purchaser within the meaning of Section 14   |
|             |          |            | Restaura |             |      |            | of The Food Safety Act 1990. I base my         |
|             |          |            | nts and  |             |      | SMALL      | opinion on the Lacors guidance on the          |
|             | Thurrock |            | other    | Sections 31 |      | LAMB       | composition, description and labelling of      |
| 89400100028 | Council  | 16/03/2017 | Caterers | & 43        | N/A  | DONOR      | doner kebabs published November 2009.          |
|             |          |            |          |             |      |            | The analysis of the sample was sub-            |
|             |          |            |          |             |      |            | contracted to Hampshire Scientific Service     |
|             |          |            |          |             |      |            | and their report is transmitted as a pdf. Lamb |
|             |          |            |          |             |      |            | meat was detected but both beef and poultry    |
|             |          |            |          |             |      |            | were also present at concentrations of >10%    |
|             |          |            |          |             |      |            | and 1.7% respectively. In my opinion, a        |
|             |          |            |          |             |      |            | product described as 'Lamb Doner' should       |
|             |          |            |          |             |      |            | contain sheep meat only. I am further of the   |
|             |          |            | Restaura |             |      |            | opinion, therefore, that the presence of both  |
|             |          |            | nts and  |             |      |            | beef and poultry renders the food not of the   |
|             | Thurrock |            | other    | Sections 31 |      | LAMB       | substance demanded within the meaning of       |
| 89400100051 | Council  | 01/08/2017 | Caterers | & 43        | N/A  | DONER      | section 14 of the Food Safety Act 1990.        |
| 09400100031 | Couricii | 01/06/2017 | Calerers | α 43        | IN/A | DONER      | Analysis indicates that the sample contains    |
|             |          |            |          |             |      |            | sheep meat, approximately 2% beef meat and     |
|             |          |            |          |             |      |            |  |
|             |          |            |          |             |      |            | in excess of 2% poultry meat. The sample       |
|             |          |            |          |             |      |            | was described as 'Regular Lamb Doner'. In      |
|             |          |            |          |             |      |            | my opinion a lamb doner kebab must only        |
|             |          |            |          |             |      |            | contain sheep meat. I am therefore of the      |
|             |          |            |          |             |      |            | opinion that the sample is not of the nature   |
|             |          |            | D        |             |      |            | demanded by a purchaser within the meaning     |
|             |          |            | Restaura |             |      | DE01:: : = | of Section 14 of The Food Safety Act 1990. I   |
|             |          |            | nts and  |             |      | REGULAR    | base my opinion on the Lacors guidance on      |
|             | Thurrock |            | other    | Sections 31 |      | LAMB       | the composition, description and labelling of  |
| 89400100046 | Council  | 23/03/2017 | Caterers | & 43        | N/A  | DONER      | doner kebabs published November 2009.          |

| 89400100026 | Thurrock<br>Council | 16/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | REGULAR<br>LAMB<br>DONOR | Analysis indicates that the sample contains sheep meat, approximately 1.5% pork meat and in excess of 10% beef meat. The sample was described as 'Regular Lamb Doner'. In my opinion a lamb doner kebab must only contain sheep meat. I am therefore of the opinion that the sample is not of the nature demanded by a purchaser within the meaning of Section 14 of The Food Safety Act 1990. I base my opinion on the Lacors guidance on the composition, description and labelling of doner kebabs published November 2009.   |
|-------------|---------------------|------------|--|---------------------|-----|--------------------------|--|
| 89400100024 | Thurrock<br>Council | 16/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | MEDIUM<br>LAMB<br>DONOR  | Analysis indicates that the sample contains sheep meat, and 9% beef meat. The sample was described as 'Medium Lamb Doner'. In my opinion a lamb doner kebab must only contain sheep meat. I am therefore of the opinion that the sample is not of the nature demanded by a purchaser within the meaning of Section 14 of The Food Safety Act 1990. I base my opinion on the Lacors guidance on the composition, description and labelling of doner kebabs published November 2009.   |
| 89400100062 | Thurrock<br>Council | 07/08/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | DONER<br>KEBAB           | The analysis of the sample was subcontracted to Hampshire Scientific Service and their report is transmitted as a pdf. Lamb meat was detected but both beef and pork were also present at concentrations of >10% and 2.0% respectively. In my opinion, a product described as 'Doner Kebab' should contain sheep meat only unless further qualified. A copy of a purchase receipt also described the product as 'Lamb Donner Kebab'. I am further of the opinion that, based on the description provided, the sample was not of the substance demanded within the meaning of section 14 of the Food Safety Act 1990. |

| 43300990020 | Walsall<br>Metropolitan<br>Borough<br>Council | 21/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | SHEEK<br>KEBAB<br>(LAMB) | The sample was analysed for a range of meat species using DNA techniques. Bovine, ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 43% of total amplified DNA Ovine DNA = 27% of total amplified DNA Chicken DNA = 30% of total amplified DNA It is my opinion that a sample described as 'lamb sheek kebab' should consist only of lamb meat unless further qualified.  |
|-------------|---|------------|--|---------------------|-----|--------------------------|--|
| 43300960138 | Walsall<br>Metropolitan<br>Borough<br>Council | 23/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | SHEEK<br>KEBAB<br>(LAMB) | The sample was analysed for a range of meat species using DNA techniques. Bovine, ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 99.4% of total amplified DNA Ovine DNA = 0.3% of total amplified DNA Chicken DNA = 0.2% of total amplified DNA It is my opinion that the amount of ovine and chicken DNA found in the sample is consistent with contamination through poor handling practices, and the sample consists of bovine (cattle) meat, contrary to the description provided. |
| 43300960135 | Walsall<br>Metropolitan<br>Borough<br>Council | 23/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | RANGILA<br>NAN (LAMB)    | The sample was analysed for a range of meat species using DNA techniques. Bovine, ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 99.2% of total amplified DNA Ovine DNA = 0.2% of total amplified DNA Chicken DNA = 0.6% of total amplified DNA It is my opinion that the amount of ovine and chicken DNA found in the sample is consistent with contamination through poor handling practices, and the  |

|             | 1   | <u> </u>   |  | 1                   | 1   | 1                        | sample consists of bovine (cattle) meat,  |
|-------------|---|------------|--|---------------------|-----|--------------------------|---|
|             |   |            |  |                     |     |                          | contrary to the description provided.   |
|             |   |            |  |                     |     |                          |   |
|             | Walsall<br>Metropolitan<br>Borough            |            | Restaura<br>nts and<br>other             | Sections 31         |     | SHEEK<br>KEBAB           | The sample was analysed for a range of meat species using DNA techniques. Bovine, ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 17.8% of total amplified DNA Ovine DNA = 58.7% of total amplified DNA Chicken DNA = 23.5% of total amplified DNA It is my opinion that a sample described as 'lamb sheek kebab' should consist only of lamb meat unless further            |
| 43300930002 | Council                                       | 06/03/2017 | Caterers                                 | & 43                | N/A | (LAMB)                   | qualified.  |
| 43300960056 | Walsall<br>Metropolitan<br>Borough<br>Council | 22/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | KEEMA<br>BALTI<br>(LAMB) | The sample was analysed for a range of meat species using DNA techniques. Bovine, ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 92.5% of total amplified DNA Ovine DNA = 5.9% of total amplified DNA Chicken DNA = 1.6% of total amplified DNA It is my opinion that a sample described as 'Keema Balti (Lamb)' should consist only of lamb meat unless further qualified. |
|             | West Sussex                                   |            |  |                     |     |                          | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Lamb), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.  The measurement is semi-quantitative, and estimates from the detected signals the   |
| 322HQINET01 | County  |            |  | Sections 31         |     | LAMB/MUTT                | amount of DNA present for all tested species  |
| 02999       | Council                                       | 20/01/2017 | Retailers                                | & 43                | N/A | ON MINCE                 | and each individual species in bands as   |

|                      |                   |            |           |                     |     |      | follows: Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Beef (medium part) Chicken (medium part) Lamb (minor part).  The food was described as Lamb/Mutton mince. Based on the analysis of this sample it was a mixture of Beef, Chicken and Lamb mince. I am therefore of the opinion that the food was misdescribed. |
|----------------------|-------------------|------------|-----------|---------------------|-----|------|---|
|                      |                   |            |           |                     |     |      | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Lamb), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.  The measurement is semi-quantitative, and   |
|                      | West Sussex       |            |           |                     |     |      | estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
| 322HQINET01<br>03001 | County<br>Council | 20/01/2017 | Retailers | Sections 31<br>& 43 | N/A | GOAT | The following species were detected in the  |

|             |             |            |          |             |     |           | comple:  |
|-------------|-------------|------------|----------|-------------|-----|-----------|--|
|             |             |            |          |             |     |           | sample:  |
|             |             |            |          |             |     |           | Beef (major part)  |
|             |             |            |          |             |     |           | Lamb (very diminutive part).   |
|             |             |            |          |             |     |           | The food was described as Goat. Based on the analysis of this sample it was Beef with less than 1% of Lamb. I am therefore of the opinion that the description "Goat" was false and misleading.  |
|             |             |            |          |             |     |           | The pizza was described as Cheese, Tomato and Ham.   |
|             |             |            |          |             |     |           | DNA was extracted from the meat part of the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. |
|             |             |            |          |             |     |           | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%)  Medium part (30 - 60%)  Minor part (5 - 30%)  Diminutive part (1 - 5%)  Very diminutive part (<1%).                           |
|             |             |            |          |             |     |           | The following species were detected in the sample:   |
|             |             |            |          |             |     | PROSCIUTT | Turkey (major part)  |
|             |             |            | Restaura |             |     | O PIZZA-  | Beef (very diminutive part).   |
|             | West Sussex |            | nts and  |             |     | CHEESE,   |  |
| 322HQINET01 | County      |            | other    | Sections 31 |     | TOMATO,   | I am of the opinion that meat sold as "Ham"  |
| 03529       | Council     | 23/02/2017 | Caterers | & 43        | N/A | HAM       | without further description should consist   |

|             |                              |            |           |                     |     |                  | solely of Pork. The sample contained Turkey and a trace of Beef and as such I am further of the opinion that the meat on the sample is misdescribed.   |
|-------------|------------------------------|------------|-----------|---------------------|-----|------------------|--|
|             |                              |            |           |                     |     |                  | The fat portion of the "cheese" portion of the sample was analysed for n-butyric acid content. n-Butyric acid is a short chain fatty acid associated with milk fat but not with other edible fats and oils at a level typically between 3.2 and 3.66, with a European Union recognised factor of 3.42. |
|             |                              |            |           |                     |     |                  | The amount of n-butyric acid determined in the fat was not consistent with the "cheese" portion being cheese, but a mixture of cheese and a substitute containing other fats or oils such as vegetable oil.  |
|             |                              |            |           |                     |     |                  | The sample was described as "cheese, tomato and ham" and therefore I am of the opinion that the topping on the sample is misdescribed.   |
|             |                              |            |           |                     |     |                  | The results above demonstrate that the sample contains meat from sheep and none from goat.   |
|             |                              |            |           |                     |     |                  | In my opinion a food described as Goat Meat must not contain meat from sheep and must contain meat solely from goat.   |
| 43700250465 | West<br>Yorkshire<br>Council | 08/03/2017 | Retailers | Sections 31<br>& 43 | N/A | 1kg Goat<br>meat | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.   |

|             |                                      |            |  |                     |     |  | The cooked cured meat contained no DNA of pig origin. The presence of DNA from turkey indicates that the material is cured poultry product. In my opinion the word ham, when used as part of a food name without qualification, can refer only to cured meat from the hind leg of a pig.   |
|-------------|--------------------------------------|------------|--|---------------------|-----|--|--|
|             |                                      |            |  |                     |     |  | The fat extracted from the cheese-like material was found to be only two thirds milk fat. Fat from cheese consists entirely of milk fat and the result demonstrates that the cheese was not cheese but a mixture of cheese, non-dairy fat  and possibly other ingredients. In my opinion it is customary for cheese rather than a mixture of cheese and substitute material to be used on pizza. |
| 43700212125 | West<br>Yorkshire<br>Council         | 15/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | 1 x tropicana<br>ham and<br>pineapple<br>pizza | I am further of the opinion that the sample was not of the substance demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
| 14402140017 | Worcestershir<br>e County<br>Council | 16/01/2017 | Retailers                                | Sections 31<br>& 43 | N/A | GOAT   | The sample was analysed for a range of meat species using DNA techniques, DNA from ovine (sheep) species only was detected in the sample, contrary to the description provided.  |
| 14402200002 | Worcestershir<br>e County<br>Council | 27/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | CURRIED<br>GOAT                                | The sample was analysed for the presence of a range of meat species using DNA techniques, bovine (cattle), ovine (sheep) and chicken DNA was detected in the sample.   |

|                              |            |           |                     |     |                        | The amount of sheep and chicken DNA found in the sample (<1% each of total amplified DNA) is consistent with contamination through poor handling practices rather than deliberate inclusion. Bovine DNA amounted to more than 99% of total amplified DNA. It is my opinion that a food described as 'curried goat' should consist of goat meat only, this sample contained meat of bovine origin only, contrary to the description provided. |
|------------------------------|------------|-----------|---------------------|-----|------------------------|--|
|                              |            |           |                     |     |                        | DNA was extracted from the sample. Five real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:   |
|                              |            |           |                     |     |                        | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Beef (major part)  |
| Antrim<br>Borough<br>Council | 14/08/2017 | Retailers | Sections 31<br>& 43 | N/A | LEAN<br>MINCE<br>STEAK | Pork (minor part)  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and   |

|             |                        |            |                             |                     |     |                   | measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|-------------|------------------------|------------|-----------------------------|---------------------|-----|-------------------|--|
|             |                        |            |                             |                     |     |                   | The following species were detected in the sample: Beef (major part) Sheep (diminutive part)   |
|             |                        |            |                             |                     |     |                   | The sample was described as "Lean mince steak" and was therefore not of the substance demanded, contrary to the requirements of Article 13 of the Food Safety (Northern Ireland) Order 1991.   |
|             |                        |            |                             |                     |     |                   | The apparent meat content of the sample was satisfactory; the level of sulphur dioxide preservative found was not excessive.   |
|             | Ards and<br>North Down |            | Manufact<br>urers<br>mainly |                     |     |                   | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related |
| 80200263664 | Borough<br>Council     | 24/01/2017 | selling by retail           | Sections 31<br>& 43 | N/A | STEAK<br>SAUSAGES | to the total amount of determined DNA, and are given in semi-quantitative ranges:  |

|             | 1                     | I          |                   |             |     |          |  |
|-------------|-----------------------|------------|-------------------|-------------|-----|----------|--|
|             |                       |            |                   |             |     |          | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Beef (major part) Pork (minor part) Sheep (very diminutive part)  The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not |
|             |                       |            |                   |             |     |          | prohibit the presence of other species of meat<br>in Beef sausages, however if the proportions<br>of added pork and lamb were sufficient to<br>characterise the food then this would have<br>implications for the name, and all species of   |
|             |                       |            |                   |             |     |          | meat deliberately added require a separate QUID declaration.   |
|             |                       |            |                   |             |     |          | Information must be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.   |
|             |                       |            |                   |             |     |          | The apparent meat content of the sample was satisfactory; the level of sulphur dioxide preservative found was not excessive.   |
|             |                       |            |                   |             |     |          | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep),   |
|             | Ards and              |            | Manufact<br>urers |             |     |          | Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris   |
|             | North Down<br>Borough |            | mainly selling by | Sections 31 |     | PORK     | gallopavo (Turkey) were then applied to detect and measure the amount of animal  |
| 80200263689 | Council               | 24/01/2017 | retail            | & 43        | N/A | SAUSAGES | DNA. present. Using the detected signals, all  |

| species DNA amounts present in the sample are calculated as relative values (%), related to the total amount of determined DNA, and are given in semi-quantitative ranges:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc. Regulations (Northern Ireland) 2014 require |
|---|
| to the total amount of determined DNA, and are given in semi-quantitative ranges:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.  |
| are given in semi-quantitative ranges:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Sheef (very diminutive part) The Products Containing Meat etc.   |
| Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Sheep (minor part) Beef (very diminutive part) The Products Containing Meat etc.   |
| Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.  |
| Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.  |
| Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.  |
| Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.   |
| Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.  |
| Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.   |
| The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part) The Products Containing Meat etc.   |
| sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.   |
| sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.   |
| Pork (major part) Sheep (minor part) Beef (very diminutive part)  The Products Containing Meat etc.   |
| Sheep (minor part) Beef (very diminutive part) The Products Containing Meat etc.  |
| Beef (very diminutive part)  The Products Containing Meat etc.  |
| The Products Containing Meat etc.   |
|   |
|   |
|   |
|   |
| pork sausages to contain meat from pigs only.   |
| DNA was extracted from the sample. Seven  |
|   |
| real-time PCR assays for Bos taurus (Beef),   |
| Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
| hircus (Goat), Equus caballus (Horse), Gallus   |
| gallus (Chicken) and Meleagris gallopavo  |
| (Turkey) were then applied to detect and  |
| measure the amount of those animal species  |
| present. The measurement is semi-   |
| quantitative, and estimates from the detected   |
| signals the amount of DNA present for all   |
|   |
| tested species and each individual species in   |
| bands as follows:   |
|   |
| Major part (60 - 100%)  |
| Medium part (30 - 60%)  |
| Ards and Minor part (5 - 30%)   |
| North Down Diminutive part (1 - 5%)   |
|   |
| Borough Sections 31 BEEF Very diminutive part (<1%).  |

|             |                                   |            |           |             |     |         | The following species were detected in the sample: Beef (major part) Pork (diminutive part) Sheep (diminutive part) The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of pork and lamb in beef burgers, however the proportions found in total are sufficient to characterise the food, and the name "Beef burgers" is insufficiently   |
|-------------|-----------------------------------|------------|-----------|-------------|-----|---------|---|
|             |                                   |            |           |             |     |         | precise to inform a purchaser of its true nature.  The apparent meat content of the sample was satisfactory. The QUID declaration made was however 2% lower than the minimum standard of 62% beef specified for beef burgers; this is not acceptable. This meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it.  |
|             |                                   |            |           |             |     |         | Information must be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.  |
|             | Ards and<br>North Down<br>Borough |            |           | Sections 31 |     | BEEF    | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all |
| 80200264287 | Council                           | 27/02/2017 | Retailers | & 43        | N/A | SAUSAGE | tested species and each individual species in   |

|             |  |            |           |                     |     |                  | bands as follows:  |
|-------------|--|------------|-----------|---------------------|-----|------------------|--|
|             |  |            |           |                     |     |                  | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|             |  |            |           |                     |     |                  | The following species were detected in the sample: Beef (major part) Pork (minor part) Sheep (minor part)  |
|             |  |            |           |                     |     |                  | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of pork and lamb in beef sausages, however the proportions found are sufficient to characacterise the food, and the name "Beef sausages" is insufficiently precise to inform a purchaser of its true nature. Additionally this meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it. |
|             |  |            |           |                     |     |                  | The apparent meat content of the sample was 13% lower than the QUID declaration made for beef content, a deficiency equivalent to 16.3% of the declared content; this is unsatisfactory. Information must be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.  |
| 80200264405 | Ards and<br>North Down<br>Borough<br>Council | 02/03/2017 | Retailers | Sections 31<br>& 43 | N/A | BEEF<br>SAUSAGES | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and  |

|             |                        |            |           |                     |     |                 | measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%)                             |
|-------------|------------------------|------------|-----------|---------------------|-----|-----------------|--|
|             |                        |            |           |                     |     |                 | Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|             |                        |            |           |                     |     |                 | The following species were detected in the sample: Beef (major part) Pork (minor part) Sheep (very diminutive part)  |
|             |                        |            |           |                     |     |                 | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of lamb and pork in beef sausages, however the proportion of pork found is sufficient to characterise the food, and the name "Beef sausages" is insufficiently precise to inform a purchaser of its true nature. |
|             |                        |            |           |                     |     |                 | This meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it. Information must also be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.   |
|             | Ards and<br>North Down |            |           |                     |     |                 | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef),   |
| 80200264393 | Borough<br>Council     | 01/03/2017 | Retailers | Sections 31<br>& 43 | N/A | BEEF<br>BURGERS | Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus   |

|             |                        |            |           |                     |     |                  | gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%). |
|-------------|------------------------|------------|-----------|---------------------|-----|------------------|--|
|             |                        |            |           |                     |     |                  | The following species were detected in the sample: Beef (major part) Sheep (minor part) Pork (diminutive part)   |
|             |                        |            |           |                     |     |                  | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of lamb and pork in beef burgers, however the proportion of lamb found is sufficient to characterise the food, and the name "Beef burgers" is insufficiently precise to inform a purchaser of its true nature.   |
|             |                        |            |           |                     |     |                  | This meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it. Information must also be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.   |
| 80200264360 | Ards and<br>North Down | 01/03/2017 | Retailers | Sections 31<br>& 43 | N/A | BEEF<br>SAUSAGES | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef),   |

|             | Borough<br>Council |            |           |             |     |       | Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%). |
|-------------|--------------------|------------|-----------|-------------|-----|-------|---|
|             |                    |            |           |             |     |       | The following species were detected in the sample: Beef (major part) Pork (diminutive part)   |
|             |                    |            |           |             |     |       | Sheep (very diminutive part) Chicken (very diminutive part)   |
|             |                    |            |           |             |     |       | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of pork, lamb and chicken in beef sausages. The apparent meat content of the sample was satisfactory. This meat product must however be labelled with a QUID declaration of the proportion of each species of meat used in it. Information must also be available for consumers regarding allergenic ingredients such as sulphites or   |
|             | Ards and           |            |           |             |     |       | cereals containing gluten used in the product.  |
|             | North Down Borough |            |           | Sections 31 |     | STEAK | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra   |
| 80200264381 | Council            | 01/03/2017 | Retailers | & 43        | N/A | MINCE | hircus (Goat), Equus caballus (Horse), Gallus   |

|  | (Turkey) were then measure the amour present. The measure quantitative, and es signals the amount       | d Meleagris gallopavo applied to detect and at of those animal species urement is semi- timates from the detected of DNA present for all each individual species in    |
|--|---|--|
|  | Major part (60 - 100 Medium part (30 - 6 Minor part (5 - 30%) Diminutive part (1 - Very diminutive part | 60%)<br>)<br>5%)   |
|  | The following species sample: Beef (major part) Pork (minor part)                                       | es were detected in the  |
|  | and was therefore r   | to the requirements of od Safety (Northern   |
|  | the maximum fat an ratio (daily averages  | the sample complied with<br>d collagen / meat protein<br>s) specified for minced<br>(EU) No 1169/2011 Annex  |
|  | moment, while this is European level, the point 2 of Part B (pe under' and 'collag under'.) are not r   | DEFRA is that, for the is being discussed at expressions required by excentage of fat content gen/meat protein ratio regarded as necessary for is not sold pre-packed. |

|             |                                   |            |           |             |     |          | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected |
|-------------|-----------------------------------|------------|-----------|-------------|-----|----------|---|
|             |                                   |            |           |             |     |          | signals the amount of DNA present for all tested species and each individual species in bands as follows:   |
|             |                                   |            |           |             |     |          | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|             |                                   |            |           |             |     |          | The following species were detected in the sample: Beef (major part) Sheep (minor part) Pork (diminutive part)  |
|             |                                   |            |           |             |     |          | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the use of lamb and pork in beef sausages, however the proportion of lamb found is sufficient to characterise the food, and the name "Beef sausages" is insufficiently precise to inform a purchaser of its true nature.  |
|             | Ards and<br>North Down<br>Borough |            |           | Sections 31 |     | BEEF     | This meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it. Information must also be available for   |
| 80200264389 | Council                           | 01/03/2017 | Retailers | & 43        | N/A | SAUSAGES | consumers regarding allergenic ingredients  |

|        |       |                        |            |                             |             |      |         | such as sulphites or cereals containing gluten  |
|--------|-------|------------------------|------------|-----------------------------|-------------|------|---------|---|
|        |       |                        |            |                             |             |      |         | used in the product.  The apparent meat content of the sample was satisfactory; the level of sulphur dioxide  |
|        |       |                        |            |                             |             |      |         | preservative found was not excessive.   |
|        |       |                        |            |                             |             |      |         | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related to the total amount of determined DNA, and |
|        |       |                        |            |                             |             |      |         | are given in semi-quantitative ranges:  |
|        |       |                        |            |                             |             |      |         | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%)  |
|        |       |                        |            |                             |             |      |         | Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|        |       |                        |            |                             |             |      |         | The following species were detected in the sample:  |
|        |       |                        |            |                             |             |      |         | Beef (medium part) Pork (medium part)   |
|        |       | Ards and<br>North Down |            | Manufact<br>urers<br>mainly |             |      |         | The name "Beef burgers" is insufficiently precise for a burger containing approximately equal proportions of beef and pork. Furthermore, the product must be labelled with QUID declarations of beef content and pork content.  |
| 900000 | 60677 | Borough                | 04/04/0047 | selling by                  | Sections 31 | NI/A | BEEF    | Information must be available for consumers   |
| 802002 | 03011 | Council                | 24/01/2017 | retail                      | & 43        | N/A  | BURGERS | regarding allergenic ingredients such as  |

|             |                       |            |           |             |     |          | sulphites or cereals containing gluten used in  |
|-------------|-----------------------|------------|-----------|-------------|-----|----------|---|
|             |                       |            |           |             |     |          | the product.  |
|             |                       |            |           |             |     |          | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in |
|             |                       |            |           |             |     |          | bands as follows:  Major part (60 - 100%)  Medium part (30 - 60%)  Minor part (5 - 30%)  Diminutive part (1 - 5%)  Very diminutive part (<1%).  |
|             |                       |            |           |             |     |          | The following species were detected in the sample: Pork (major part) Sheep (minor part) Beef (very diminutive part)   |
|             | Ards and              |            |           |             |     |          | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 require pork sausages to contain meat from pigs only. In addition to bearing a revised name to reflect its composition, this meat product must be labelled with a QUID declaration of the proportion of each species of meat used in it. Information must also be available for   |
|             | North Down<br>Borough |            |           | Sections 31 |     | PORK     | consumers regarding allergenic ingredients such as sulphites or cereals containing gluten   |
| 80200264336 | Council               | 01/03/2017 | Retailers | & 43        | N/A | SAUSAGES | used in the product.  |

|             |                    |            |                   |                     |      |                  | The apparent meat content of the sample was   |
|-------------|--------------------|------------|-------------------|---------------------|------|------------------|---|
|             |                    |            |                   |                     |      |                  | 6% lower than the QUID declaration made for beef content, a deficiency equivalent to 6.3%   |
|             |                    |            |                   |                     |      |                  | of the declared content; this is unsatisfactory.  |
|             |                    |            |                   |                     |      |                  | ,   |
|             |                    |            |                   |                     |      |                  | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related to the total amount of determined DNA, and are given in semi-quantitative ranges:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Beef (major part) Pork (diminutive part) Sheep (very diminutive part) The Products Containing Meat etc. |
|             |                    |            | Manufact          |                     |      |                  | Regulations (Northern Ireland) 2014 do not prohibit the presence of other species of meat   |
|             | Ards and           |            | urers             |                     |      |                  | in Steak Burgers, however if the proportions  |
|             | North Down         |            | mainly            |                     |      | 075416           | of added pork and lamb were sufficient to   |
| 80200263681 | Borough<br>Council | 24/01/2017 | selling by retail | Sections 31<br>& 43 | N/A  | STEAK<br>BURGERS | characterise the food then this would have implications for the name, and all species of  |
| 00200203001 | Council            | 24/01/2017 | Totali            | U 70                | 13/7 | DONOLING         | implications for the flame, and all species of  |

|             |            |            |            |             |     |          | meat deliberately added require a separate   |
|-------------|------------|------------|------------|-------------|-----|----------|--|
|             |            |            |            |             |     |          | QUID declaration.  |
|             |            |            |            |             |     |          | The apparent meat content of the sample was  |
|             |            |            |            |             |     |          | satisfactory; the level of sulphur dioxide   |
|             |            |            |            |             |     |          | preservative found was not excessive.  |
|             |            |            |            |             |     |          | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related |
|             |            |            |            |             |     |          | to the total amount of determined DNA, and are given in semi-quantitative ranges:  |
|             |            |            |            |             |     |          | Major part (60 - 100%)   |
|             |            |            |            |             |     |          | Medium part (30 - 60%)   |
|             |            |            |            |             |     |          | Minor part (5 - 30%)   |
|             |            |            |            |             |     |          | Diminutive part (1 - 5%)   |
|             |            |            |            |             |     |          | Very diminutive part (<1%).  |
|             |            |            |            |             |     |          | The following species were detected in the sample: Beef (major part) Pork (minor part)   |
|             |            |            |            |             |     |          | Sheep (very diminutive part)   |
|             |            |            |            |             |     |          |  |
|             |            |            |            |             |     |          | The Products Containing Meat etc.  |
|             |            |            | Manufact   |             |     |          | Regulations (Northern Ireland) 2014 do not   |
|             | Ards and   |            | urers      |             |     |          | prohibit the presence of other species of meat in Beef Sausages, however if the proportions  |
|             | North Down |            | mainly     |             |     |          | of added pork and lamb were sufficient to  |
|             | Borough    |            | selling by | Sections 31 |     | BEEF     | characterise the food then this would have   |
| 80200263685 | Council    | 24/01/2017 | retail     | & 43        | N/A | SAUSAGES | implications for the name, and all species of  |

|             |            |            |            |             |      |          | meat deliberately added require a separate  |
|-------------|------------|------------|------------|-------------|------|----------|---|
|             |            |            |            |             |      |          | QUID declaration.  DNA was extracted from the sample. Seven                           |
|             |            |            |            |             |      |          | real-time PCR assays for Bos taurus (Beef),   |
|             |            |            |            |             |      |          | Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
|             |            |            |            |             |      |          | hircus (Goat), Equus caballus (Horse), Gallus   |
|             |            |            |            |             |      |          | gallus (Chicken) and Meleagris gallopavo  |
|             |            |            |            |             |      |          | (Turkey) were then applied to detect and  |
|             |            |            |            |             |      |          | measure the amount of those animal species present. The measurement is semi-          |
|             |            |            |            |             |      |          | quantitative, and estimates from the detected   |
|             |            |            |            |             |      |          | signals the amount of DNA present for all   |
|             |            |            |            |             |      |          | tested species and each individual species in   |
|             |            |            |            |             |      |          | bands as follows:   |
|             |            |            |            |             |      |          | Major part (60 - 100%)  |
|             |            |            |            |             |      |          | Medium part (30 - 60%)  |
|             |            |            |            |             |      |          | Minor part (5 - 30%)  |
|             |            |            |            |             |      |          | Diminutive part (1 - 5%)  |
|             |            |            |            |             |      |          | Very diminutive part (<1%).   |
|             |            |            |            |             |      |          | The following species were detected in the  |
|             |            |            |            |             |      |          | sample:   |
|             |            |            |            |             |      |          | Beef (major part) Sheep (diminutive part)   |
|             |            |            |            |             |      |          | Pork (very diminutive part)   |
|             |            |            |            |             |      |          |   |
|             |            |            |            |             |      |          | The Products Containing Meat etc.   |
|             |            |            |            |             |      |          | Regulations (Northern Ireland) 2014 do not  |
|             |            |            |            |             |      |          | prohibit the use of pork and lamb in beef sausages, however this meat product must be |
|             |            |            |            |             |      |          | labelled with a QUID declaration of the   |
|             |            |            |            |             |      |          | proportion of each species of meat used in it.  |
|             |            |            | Manufact   |             |      |          | The apparent meat content of the sample was   |
|             | Ards and   |            | urers      |             |      |          | satisfactory, however the QUID declaration  |
|             | North Down |            | mainly     |             |      |          | made must include an indication of the  |
| 00000004040 | Borough    | 00/00/0047 | selling by | Sections 31 | NI/A | STEAK    | species to which it relates. Information must   |
| 80200264319 | Council    | 28/02/2017 | retail     | & 43        | N/A  | SAUSAGES | be available for consumers regarding  |

|             |            |            |            |             |     |          | allergenic ingredients such as sulphites or   |
|-------------|------------|------------|------------|-------------|-----|----------|---|
|             |            |            |            |             |     |          | cereals containing gluten used in the product.  |
|             |            |            |            |             |     |          | The apparent meat content of the sample was   |
|             |            |            |            |             |     |          | satisfactory; the level of sulphur dioxide  |
|             |            |            |            |             |     |          | preservative found was not excessive.   |
|             |            |            |            |             |     |          | preservative round was not excessive.   |
|             |            |            |            |             |     |          | DNA was extracted from the sample. Seven real-time PCR assays specific for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of animal DNA. present. Using the detected signals, all species DNA amounts present in the sample are calculated as relative values (%), related to the total amount of determined DNA. |
|             |            |            |            |             |     |          | to the total amount of determined DNA, and are given in semi-quantitative ranges:   |
|             |            |            |            |             |     |          | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|             |            |            |            |             |     |          | The following species were detected in the sample:  |
|             |            |            |            |             |     |          | Pork (major part)   |
|             |            |            |            |             |     |          | Sheep (minor part)  |
|             |            |            |            |             |     |          | Beef (very diminutive part)   |
|             | Ards and   |            |            |             |     |          |   |
|             | North Down |            |            |             |     |          | The Products Containing Meat etc.   |
|             | Borough    |            |            | Sections 31 |     | PORK     | Regulations (Northern Ireland) 2014 require   |
| 80200263702 | Council    | 24/01/2017 | Retailers  | & 43        | N/A | SAUSAGES | pork sausages to contain meat from pigs only.   |
|             |            |            | Manufact   |             |     |          | DNA was extracted from the sample. Seven  |
|             | Ards and   |            | urers      |             |     |          | real-time PCR assays for Bos taurus (Beef),   |
|             | North Down |            | mainly     |             |     |          | Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
|             | Borough    |            | selling by | Sections 31 |     | PORK     | hircus (Goat), Equus caballus (Horse), Gallus   |
| 80200264328 | Council    | 28/02/2017 | retail     | & 43        | N/A | SAUSAGES | gallus (Chicken) and Meleagris gallopavo  |

|              |              |            |   |             |          |         | (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Pork (major part) Beef (diminutive part)  The Products Containing Meat etc. Regulations (Northern Ireland) 2014 require pork sausages to contain meat from pigs only. In addition to bearing a revised name to reflect its composition, this meat product must be labelled QUID declarations of pork and beef content. Information must also be available for consumers regarding allergenic ingredients such as sulphites or cereals |
|--------------|--------------|------------|---|-------------|----------|---------|---|
|              |              |            |   |             |          |         | containing gluten used in the product.  DNA was extracted from the sample. Seven  |
| 007000004400 | Belfast City | 47/00/0047 | Manufact<br>urers<br>mainly<br>selling by | Sections 31 | Sections | LAMB    | real-time PCR assays for Bos taurus (Beef),<br>Sus scrofa (Pork), Ovis aries (Sheep), Capra<br>hircus (Goat), Equus caballus (Horse), Gallus<br>gallus (Chicken) and Meleagris gallopavo<br>(Turkey) were then applied to detect and<br>measure the amount of those animal species<br>present. The measurement is semi-<br>quantitative, and estimates from the detected  |
| 807006224422 | Council      | 17/02/2017 | retail                                    | & 43        | 31 & 43  | BURGERS | signals the amount of DNA present for all   |

|              |                         |            |                             |                     |                     |                  | tested species and each individual species in bands as follows:  |
|--------------|-------------------------|------------|-----------------------------|---------------------|---------------------|------------------|--|
|              |                         |            |                             |                     |                     |                  | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|              |                         |            |                             |                     |                     |                  | The following species were detected in the sample: Sheep (medium part) Beef (minor part)   |
|              |                         |            |                             |                     |                     |                  | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the presence of beef in lamb burgers, however the proportion of beef found is sufficient to partially characterise the food. On this basis the name "Lambburgers" is insufficiently precise to inform a purchaser of its true nature. This meat product must be labelled with QUID declarations of both lamb content and beef content. |
|              |                         |            |                             |                     |                     |                  | The allergen gluten was detected in the sample; information must also be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product.  |
|              |                         |            | Manufact<br>urers<br>mainly |                     |                     |                  | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species   |
| 807006224417 | Belfast City<br>Council | 17/02/2017 | selling by retail           | Sections 31<br>& 43 | Sections<br>31 & 43 | LAMB<br>SAUSAGES | present. The measurement is semi-<br>quantitative, and estimates from the detected   |

|             |                         |            |           |                     |                     |       | signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Sheep (medium part) Beef (medium part) The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the presence of beef in lamb sausages, however the proportion of beef found is sufficient to partially characterise the food. On this basis the name "Lamb sausages" is insufficiently precise to inform a purchaser of its true nature. This meat product must be labelled with QUID declarations of both lamb content and beef content. Information must also be available for consumers regarding allergenic ingredients such as sulphites or cereals containing gluten used in the product. |
|-------------|-------------------------|------------|-----------|---------------------|---------------------|-------|---|
|             | Dalfact Oite            |            |           | Continue 04         | Continue            | BEEF  | DNA was extracted from the sample. Five real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the  |
| 80700560281 | Belfast City<br>Council | 01/09/2017 | Retailers | Sections 31<br>& 43 | Sections<br>31 & 43 | MINCE | amount of DNA present for all tested species and each individual species in bands as  |

|  | follows:   |
|--|--|
|  |  |
|  | Major part (60 - 100%)   |
|  | Medium part (30 - 60%)   |
|  | Minor part (5 - 30%)   |
|  | Diminutive part (1 - 5%)   |
|  | Very diminutive part (<1%).  |
|  | The following species were detected in the                                       |
|  | sample:  |
|  | Beef (major part)  |
|  | Sheep (diminutive part)  |
|  | The sample was described as "Beef mince",  |
|  | and was therefore not of the substance   |
|  | demanded, contrary to the requirements of  |
|  | Article 13 of the Food Safety (Northern  |
|  | Ireland) Order 1991.   |
|  | I would expect the meat ingredient of a meat                                     |
|  | product described as 'lamb korma' to be derived only from sheep unless otherwise |
|  | qualified. DNA of sheep was not detected in                                      |
|  | the sample. DNA of sheep was not detected in the                                 |
| Restaura                                     | sample. I am of the opinion that the meat of                                     |
| nts and                                      | the sample was derived from cow and that the                                     |
| Blackpool other Sections                     |  |
| 89800170051 Council 02/08/2017 Caterers & 43 | 31 & 43 Lamb Korma purchaser.  |
|  | The sample was analysed for the presence of                                      |
|  | a range of meat species using DNA  |
|  | techniques, bovine (cattle) and porcine (pig)                                    |
|  | DNA was detected in the sample. The  |
|  | amount of amplified DNA from bovine and  |
|  | porcine species was quantified in relation to                                    |
|  | the amount of total amplified DNA as follows:                                    |
|  | Bovine DNA amounted to 91.3% of the total amplified DNA Porcine DNA amounted to  |
| Bracknell                                    | RANGE 8.7% of the total amplified DNA In my                                      |
| 882HQINET01 Forest Unitary Sections          | ,  |
| 03023 Authority 20/01/2017 Retailers & 43    | 31 & 43 RED ONION the sample is consistent with deliberate                       |

| F           | 1              | 1          | Т         |             | 1        |           | T  |
|-------------|----------------|------------|-----------|-------------|----------|-----------|--|
|             |                |            |           |             |          |           | inclusion. It is my further opinion that a food  |
|             |                |            |           |             |          |           | described as a beef sausage should consist   |
|             |                |            |           |             |          |           | only of bovine meat unless further qualified.  |
|             |                |            |           |             |          | FREE      | The sample was analysed for a range of meat species using DNA techniques. Bovine (cattle) and porcine (pig) DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Bovine DNA = 91.8% of total amplified DNA Porcine DNA = 8.2% of total amplified DNA It is my opinion that a sample described as 'beef and red onion sausages' should consist only of beef meat unless further qualified. I am therefore of |
|             | Bracknell      |            |           |             |          | RANGE     | the further opinion, that the sample is not of   |
| 882HQINET01 | Forest Unitary |            |           | Sections 31 | Sections | BEEF AND  | the nature demanded within the meaning of  |
| 03617       | Authority      | 07/03/2017 | Retailers | & 43        | 31 & 43  | RED ONION | the Food Safety Act 1990.  |
|             |                |            |           |             |          |           | The food was sold not prepacked i.e. loose   |
|             |                |            |           |             |          |           | (appendix image 1). All of the submitted   |
|             |                |            |           |             |          |           | minced meat was homogenised together in  |
|             |                |            |           |             |          |           | order to form the sample for analysis.   |
|             |                |            |           |             |          |           | Regulation (EU) No 1169/2011, enforced by  |
|             |                |            |           |             |          |           | the Food Information (Wales) Regulations   |
|             |                |            |           |             |          |           | 2014 specifies designations of minced meat   |
|             |                |            |           |             |          |           | with compositional standards for each  |
|             |                |            |           |             |          |           | designation. The designation 'minced pure  |
|             |                |            |           |             |          |           | beef' has a compositional standard (based on   |
|             |                |            |           |             |          |           | a daily average) in that it must not contain   |
|             |                |            |           |             |          |           | more than 20 percent fat and a collagen/meat protein ratio of no more than 15 percent. Both  |
|             |                |            |           |             |          |           | the fat content and collagen/meat protein ratio  |
|             |                |            |           |             |          |           | found by analysis were each below these  |
|             |                |            |           |             |          |           | compositional standard maximum values for  |
|             |                |            |           |             |          |           | 'minced pure beef'. Analysis found no sulphur  |
|             |                |            |           |             |          |           | dioxide (preservative) above the limit of  |
|             | Bridgend       |            |           |             |          |           | detection of the analytical method employed.   |
|             | County         |            |           |             |          |           | I am subsequently of the opinion that the  |
|             | Borough        |            |           | Sections 31 | Sections | MINCED    | results of these applied tests were  |
| 55300610002 | Council        | 20/01/2017 | Retailers | & 43        | 31 & 43  | STEAK     | satisfactory. However, the sample was found  |

|             |              |            |           |             |          |        | to contain genetic material consistent with  |
|-------------|--------------|------------|-----------|-------------|----------|--------|--|
|             |              |            |           |             |          |        | bovine (beef) and porcine (pork). Quantified   |
|             |              |            |           |             |          |        | DNA analysis estimate of the amounts by  |
|             |              |            |           |             |          |        | determining the normalised ratio of the target   |
|             |              |            |           |             |          |        | species DNA copy number to the total copy  |
|             |              |            |           |             |          |        | numbers (bovine, ovine, porcine, gallus,   |
|             |              |            |           |             |          |        | meleagris and horse equine). The copy  |
|             |              |            |           |             |          |        | number ratio of the porcine and all species  |
|             |              |            |           |             |          |        | indicates that as a best estimate based on the   |
|             |              |            |           |             |          |        | DNA extraction variability between different   |
|             |              |            |           |             |          |        | types of tissues, the level of porcine is  |
|             |              |            |           |             |          |        | between 5-10% of the meat component. I   |
|             |              |            |           |             |          |        | am therefore of the opinion that the sample is   |
|             |              |            |           |             |          |        | predominantly beef which contains a  |
|             |              |            |           |             |          |        | moderate level of pork. I am also of the   |
|             |              |            |           |             |          |        | opinion that a food inferred as 'beef' from the  |
|             |              |            |           |             |          |        | use of the common term 'steak' in the name   |
|             |              |            |           |             |          |        | should consist entirely of beef. Furthermore, I  |
|             |              |            |           |             |          |        | am of the opinion that it would be prudent for such a name to include a reference to the |
|             |              |            |           |             |          |        |  |
|             |              |            |           |             |          |        | animal species (for example 'minced beef steak') in order to ensure that all             |
|             |              |            |           |             |          |        | purchasers/consumers are fully informed.   |
|             |              |            |           |             |          |        | UNSATISFACTORY - Composition The   |
|             |              |            |           |             |          |        | sample was sub-contracted to Worcestershire  |
|             |              |            |           |             |          |        | Scientific Services for the analysis. Their  |
|             |              |            |           |             |          |        | report is attached as a pdf. The sample was  |
|             |              |            |           |             |          |        | analysed for the presence of both ovine  |
|             |              |            |           |             |          |        | (sheep) and caprine (goat) DNA but only  |
|             |              |            |           |             |          |        | ovine DNA was detected. In my opinion, the   |
|             |              |            |           |             |          |        | presence of sheep meat and absence of goat   |
|             | Brighton and |            |           |             |          |        | renders the food not of the nature demanded  |
| 875HQINET01 | Hove City    |            |           | Sections 31 |          |        | within the meaning of section 14 of the Food   |
| 05100       | Council      | 30/08/2017 | Retailers | & 43        | N/A      | GOAT   | Safety Act 1990.   |
|             | Bury         |            |           |             |          |        | The sample was described as 'beef mince'.  |
|             | Metropolitan |            |           |             |          |        | DNA of cow and chicken was detected in the   |
|             | Borough      |            |           | Sections 31 | Sections | MINCED | sample. The amount of chicken meat was   |
| 40500010592 | Council      | 14/02/2017 | Retailers | & 43        | 31 & 43  | BEEF   | estimated as approximately 2% and I am of  |

|             |                        |            |   |             |          |       | the opinion that the food was not of the nature   |
|-------------|------------------------|------------|---|-------------|----------|-------|---|
|             |                        |            |   |             |          |       | demanded by the purchaser.  |
|             |                        |            |   |             |          |       | The sample contained 675 mg/kg of sulphur dioxide preservative. The Food Additives, Flavourings, Enzymes and Extraction Solvents Regulations (Northern Ireland) 2013 and Regulation (EC) No 1333/2008 do not permit the use of this additive in fresh meat, including steak mince.  |
|             |                        |            |   |             |          |       | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows: |
|             |                        |            |   |             |          |       | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
|             |                        |            |   |             |          |       | The following species were detected in the sample: Beef (major part) Pork (minor part) Sheep (very diminutive part)   |
|             | Castlereagh<br>Borough |            | Manufact<br>urers<br>mainly<br>selling by | Sections 31 | Sections | STEAK | The sample was described as "Steak mince" and was therefore not of the substance demanded, contrary to the requirements of  |
| 80900290831 | Council                | 19/04/2017 | retail                                    | & 43        | 31 & 43  | MINCE | Article 13 of the Food Safety (Northern   |

|             |                                   |            |   |                     |                     |                  | Ireland) Order 1991.  |
|-------------|-----------------------------------|------------|---|---------------------|---------------------|------------------|---|
|             |                                   |            |   |                     |                     |                  | The composition of the sample complied with the maximum fat and collagen / meat protein ratio (daily averages) specified for minced beef by Regulation (EU) No 1169/2011 Annex VI Part B. However the above results are consistent with the presence of 8% of extraneous water in the sample. Furthermore, the level of fat found exceeds that indicated at the point of sale (7%). |
|             |                                   |            |   |                     |                     |                  | Current advice from DEFRA is that, for the moment, while this is being discussed at European level, the expressions required by point 2 of Part B (percentage of fat content under' and 'collagen/meat protein ratio under'. ) are not regarded as necessary for minced beef which is not sold pre-packed.  |
|             |                                   |            |   |                     |                     |                  | The sulphur dioxide preservative content of the sample was 615 mg/kg higher than the maximum limit of 450 mg/kg permitted in sausagemeat by The Food Additives, Flavourings, Enzymes and Extraction Solvents Regulations (Northern Ireland) 2013 and Regulation (EC) No 1333/2008.  |
|             |                                   |            |   |                     |                     |                  | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species  |
| 80900290843 | Castlereagh<br>Borough<br>Council | 19/04/2017 | Manufact<br>urers<br>mainly<br>selling by<br>retail | Sections 31<br>& 43 | Sections<br>31 & 43 | BEEF VEG<br>ROLL | present. The measurement is semi-<br>quantitative, and estimates from the detected<br>signals the amount of DNA present for all<br>tested species and each individual species in<br>bands as follows:   |

|             | 1                                 | 1          | I   | 1                   | I                   |                              | T  |
|-------------|-----------------------------------|------------|---|---------------------|---------------------|------------------------------|--|
|             |                                   |            |   |                     |                     |                              | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  The following species were detected in the sample: Beef (medium part) Pork (medium part) Sheep (diminutive part)  The Products Containing Meat etc. Regulations (Northern Ireland) 2014 do not prohibit the presence of pork and lamb in beef sausages. However, the proportions found in the sample are sufficient to characterise the product, and the name "Beef veg roll" is insufficiently precise to inform a purchaser of its true nature. Furthermore, a QUID declaration must be made of the proportion of each species of meat used in the product. |
| 80900290834 | Castlereagh<br>Borough<br>Council | 19/04/2017 | Manufact<br>urers<br>mainly<br>selling by<br>retail | Sections 31<br>& 43 | Sections<br>31 & 43 | PORK AND<br>LEEK<br>SAUSAGES | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%)  |

|             |              |            |           |             |     |       | Diminutive part (1 - 5%) Very diminutive part (<1%).                                      |
|-------------|--------------|------------|-----------|-------------|-----|-------|---|
|             |              |            |           |             |     |       | The following species were detected in the  |
|             |              |            |           |             |     |       | sample:   |
|             |              |            |           |             |     |       | Pork (major part)   |
|             |              |            |           |             |     |       | Sheep (diminutive part) Beef (very diminutive part)                                       |
|             |              |            |           |             |     |       | The Deckerts Containing Mant etc.   |
|             |              |            |           |             |     |       | The Products Containing Meat etc. Regulations (Northern Ireland) 2014 require             |
|             |              |            |           |             |     |       | pork sausages to contain meat from pigs only.   |
|             |              |            |           |             |     |       | The sausages were stated to have natural sheep casings, however the proportion of         |
|             |              |            |           |             |     |       | sheep DNA found in the sausagemeat was  |
|             |              |            |           |             |     |       | too high to be attributable to that source alone.   |
|             |              |            |           |             |     |       |   |
|             |              |            |           |             |     |       | The apparent meat content of the sample was satisfactory.                                 |
|             |              |            |           |             |     |       | The sample consisted of minced meat   |
|             |              |            |           |             |     |       | described as "Beef Mince".  |
|             |              |            |           |             |     |       | There was no indication of an excess of   |
|             |              |            |           |             |     |       | collagen, fat or added water.   |
|             |              |            |           |             |     |       | Analysis of DNA extracted from the meat   |
|             |              |            |           |             |     |       | showed it to consist principally of beef, but that a significant amount of sheep meat was |
|             |              |            |           |             |     |       | also present.   |
|             |              |            |           |             |     |       | The Food Standards Agency advice is that  |
|             |              |            |           |             |     |       | values above 1% be regarded as deliberate   |
|             |              |            |           |             |     |       | addition and values below as adventitious contamination. The sample contained an          |
|             |              |            |           |             |     |       | excess of sheep meat (1-5%) and was   |
|             | Devon County |            |           | Sections 31 |     | BEEF  | therefore not of the substance demanded, contrary to the requirements of Section 14 of    |
| 07102680059 | Council      | 17/01/2017 | Retailers | & 43        | N/A | MINCE | the Food Safety Act 1990.   |

|             |              |            |                        | ı           | _   | T                           |  |
|-------------|--------------|------------|------------------------|-------------|-----|-----------------------------|--|
|             |              |            |                        |             |     |                             | The following scale is used to indicate the proportion of DNA in the total DNA measured.  Major part (60-100%) Medium part (30-60%) Minor parts (5-30%) Diminutive part (1-5%) Very diminutive parts (<1%) (detected but below the reporting limit of the method) Not detected   |
|             |              |            |                        |             |     |                             | The apparent meat content, was satisfactory and there was no indication of excess fat, connective tissue or added water.  Analysis of DNA extracted from the meat showed it to consist principally of beef, but that a significant amount of sheep meat was also.  |
|             |              |            |                        |             |     |                             | The Food Standards Agency advice is that values above 1% be regarded as deliberate addition and values below as adventitious contamination. The sample contained an excess of sheep meat (1-5%) and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990. |
|             |              |            |                        |             |     |                             | The following scale is used to indicate the proportion of DNA in the total DNA measured.   |
|             | Devon County |            | Manufact<br>urers/proc | Sections 31 |     | ABERDEEN<br>ANGUS<br>MINCED | Major part (60-100%) Medium part (30-60%) Minor parts (5-30%) Diminutive part (1-5%)   |
| 07102650007 | Council      | 24/03/2017 | essors                 | & 43        | N/A | STEAK                       | Very diminutive parts (<1%) (detected but  |

|             |                          |            |                                  |                     |                     |                    | below the reporting limit of the method)  |
|-------------|--------------------------|------------|----------------------------------|---------------------|---------------------|--------------------|---|
|             |                          |            |                                  |                     |                     |                    | Not detected  |
|             |                          |            |                                  |                     |                     |                    | Analysis of DNA extracted from the meat showed it to consist principally of beef, but that a significant amount of pork was also present.   |
|             |                          |            |                                  |                     |                     |                    | The Food Standards Agency advice is that values above 1% be regarded as deliberate addition and values below as adventitious contamination. The sample contained an excess of pork (1-5%) and was therefore not of the substance demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990.    |
|             |                          |            |                                  |                     |                     |                    | The following scale is used to indicate the proportion of DNA in the total DNA measured.  |
|             |                          |            |                                  |                     |                     |                    | Major part (60-100%)  |
|             |                          |            |                                  |                     |                     |                    | Medium part (30-60%)<br>Minor parts (5-30%)   |
|             |                          |            | Manufact                         |                     |                     |                    | Diminutive part (1-5%)  |
| 08200040483 | Dorset County<br>Council | 27/02/2017 | Manufact<br>urers/proc<br>essors | Sections 31<br>& 43 | Sections<br>31 & 43 | BEEF<br>MINCE      | Very diminutive parts (<1%) (detected but below the reporting limit of the method)  Not detected  |
|             | Dudley                   |            |                                  |                     |                     |                    | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. |
|             | Metropolitan             |            |                                  |                     |                     |                    | The measurement is semi-quantitative, and   |
| 40900090288 | Borough<br>Council       | 20/01/2017 | Retailers                        | Sections 31<br>& 43 | N/A                 | DICED<br>GOAT MEAT | estimates from the detected signals the amount of DNA present for all tested species  |

|             |              |            |          |             |     |       | and each individual species in bands as   |
|-------------|--------------|------------|----------|-------------|-----|-------|---|
|             |              |            |          |             |     |       | follows:  |
|             |              |            |          |             |     |       |   |
|             |              |            |          |             |     |       | Major part (60 - 100%)  |
|             |              |            |          |             |     |       | Medium part (30 - 60%)  |
|             |              |            |          |             |     |       | Minor part (5 - 30%)  |
|             |              |            |          |             |     |       | Diminutive part (1 - 5%)  |
|             |              |            |          |             |     |       | Very diminutive part (<1%)  |
|             |              |            |          |             |     |       | The following species were detected in the  |
|             |              |            |          |             |     |       | sample:   |
|             |              |            |          |             |     |       | Sheep (major part)  |
|             |              |            |          |             |     |       | The only species detected was sheep. Goat   |
|             |              |            |          |             |     |       | was not detected.   |
|             |              |            |          |             |     |       | The first detected.   |
|             |              |            |          |             |     |       | The sample was described as 'Diced Goat   |
|             |              |            |          |             |     |       | Meat'. In my opinion the sample consisted of  |
|             |              |            |          |             |     |       | meat from sheep and did not contain any goat meat.  |
|             |              |            |          |             |     |       | meat.   |
|             |              |            |          |             |     |       | I am therefore of the opinion that the sample   |
|             |              |            |          |             |     |       | was not of the nature demanded by the   |
|             |              |            |          |             |     |       | purchaser.  |
|             |              |            |          |             |     |       | DNA was extracted from the sample. Seven  |
|             |              |            |          |             |     |       | real-time PCR assays for Bos taurus (Beef),<br>Sus scrofa (Pork), Ovis aries (Sheep), Capra |
|             |              |            |          |             |     |       | hircus (Goat), Equus caballus (Horse), Gallus   |
|             |              |            |          |             |     |       | gallus (Chicken) and Meleagris gallopavo  |
|             |              |            |          |             |     |       | (Turkey) were then applied to detect and  |
|             |              |            |          |             |     |       | measure the amount of those animal species  |
|             |              |            |          |             |     |       | present.  |
|             |              |            |          |             |     |       | The measurement is semi-quantitative, and   |
|             |              |            |          |             |     |       | estimates from the detected signals the   |
|             | Dudley       |            | Restaura |             |     |       | amount of DNA present for all tested species  |
|             | Metropolitan |            | nts and  |             |     |       | and each individual species in bands as   |
|             | Borough      |            | other    | Sections 31 | 1   | GOAT  | follows:  |
| 40900090282 | Council      | 19/01/2017 | Caterers | & 43        | N/A | CURRY |   |

|             |  |            |  |                     |     |                          | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%)  The following species were detected in the sample: Sheep (major part)  The only species detected was sheep. Goat was not detected.  The sample was described as 'Goat Curry'. In my opinion the sample consisted of meat from sheep and did not contain any goat meat. |
|-------------|--|------------|--|---------------------|-----|--------------------------|--|
|             |  |            |  |                     |     |                          | I am therefore of the opinion that the sample was not of the nature demanded by the purchaser.   |
|             |  |            |  |                     |     |                          | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.  |
|             |  |            |  |                     |     |                          | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  |
| 40900090279 | Dudley<br>Metropolitan<br>Borough<br>Council | 16/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | SPECIAL<br>CURRY<br>GOAT | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%)  |

|                             |            |                                  |                     |                     |                             | Very diminutive part (<1%)  |
|-----------------------------|------------|----------------------------------|---------------------|---------------------|-----------------------------|---|
|                             |            |                                  |                     |                     |                             | The following species were detected in the sample: Sheep (major part)   |
|                             |            |                                  |                     |                     |                             | The only species detected was sheep. Goat was not detected.   |
|                             |            |                                  |                     |                     |                             | The sample was described as 'Special Curry Goat'. In my opinion the sample consisted of meat from sheep and did not contain any goat meat.  |
|                             |            |                                  |                     |                     |                             | I am therefore of the opinion that the sample was not of the nature demanded by the purchaser.  |
|                             |            |                                  |                     |                     |                             | The sample consisted of a meat product described as "pork and leek sausage".  |
|                             |            |                                  |                     |                     |                             | The Products Containing Meat etc (England) Regulations 2014 require the meat portion of a food described as pork sausage to consist entirely of pork. Food Standards Agency advice is that values above 1% should be regarded as deliberate addition. Analysis of DNA extracted from the meat portion of the sample showed it to consist of pork with significant amounts of sheep (above 1%), contrary to the requirements of the Regulations. |
|                             |            |                                  |                     |                     |                             | The following scale is used to indicate the proportion of DNA in the total DNA measured.  |
| Durham<br>County<br>Council | 18/01/2017 | Manufact<br>urers/proc<br>essors | Sections 31<br>& 43 | Sections<br>31 & 43 | PORK AND<br>LEEK<br>SAUSAGE | Major part (60-100%)<br>Medium part (30-60%)<br>Minor parts (5-30%)   |

|             |               |            | I         | 1           | 1    | 1         | D''. (' (4 F0/)  |
|-------------|---------------|------------|-----------|-------------|------|-----------|--|
|             |               |            |           |             |      |           | Diminutive part (1-5%)   |
|             |               |            |           |             |      |           | Very diminutive parts (<1%) (detected but  |
|             |               |            |           |             |      |           | below the reporting limit of the method)   |
|             |               |            |           |             |      |           | Not detected   |
|             |               |            |           |             |      |           | DNA was extracted from the sample. Eight real-time PCR assays for Bos taurus (Beef),       |
|             |               |            |           |             |      |           | Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus |
|             |               |            |           |             |      |           | gallus (Chicken), Anas species (Duck) and<br>Meleagris gallopavo (Turkey) were then        |
|             |               |            |           |             |      |           | applied to detect and measure the amount of  |
|             |               |            |           |             |      |           | those animal species present.  |
|             |               |            |           |             |      |           | The measurement is semi-quantitative, and estimates from the detected signals the          |
|             |               |            |           |             |      |           | amount of DNA present for all tested species   |
|             |               |            |           |             |      |           | and each individual species in bands as follows:   |
|             |               |            |           |             |      |           | Major part (60 - 100%)   |
|             |               |            |           |             |      |           | Medium part (30 - 60%)   |
|             |               |            |           |             |      |           | Minor part (5 - 30%)   |
|             |               |            |           |             |      |           | Diminutive part (1 - 5%) Very diminutive part (<1%).                                       |
|             |               |            |           |             |      |           | very diffinitive part (<170).  |
|             |               |            |           |             |      |           | The following species were detected in the sample:   |
|             |               |            |           |             |      |           | Sheep (major part)   |
|             |               |            |           |             |      |           | Chicken (very diminutive part).  |
|             |               |            | Restaura  |             |      |           | Duck was not detected in the sample.   |
|             | East Sussex   |            | nts and   |             |      |           | On this basis the species description "Duck"   |
|             | County        |            | other     | Sections 31 |      | Bagalore  | applied to the meat in the meal is false and   |
| 10001440417 | Council       | 19/03/2017 | Caterers  | & 43        | N/A  | Duck      | misleading.  |
|             |               |            |           |             |      |           | The trade label bore the name 'Smoky BBQ   |
|             | Llowffordsb:  |            |           |             |      | CMOKY DDG | Pulled Pork' and ' Formed pork with added  |
|             | Hertfordshire |            |           | 0           |      | SMOKY BBQ | water, marinated and cooked using a blend of   |
| 45400007000 | County        | 00/00/0047 | Datailans | Sections 31 | NI/A | PULLED    | herbs and spices'. In my opinion the name  |
| 15400067229 | Council       | 08/03/2017 | Retailers | & 43        | N/A  | PORK      | implies to a purchaser that the meat used in   |

|             |                                   |            |           |                     |     |                    | the manufacture of the food is solely pork. Analysis shows that the sample contains both pork and beef meat. In my opinion the amount of beef is consistent with deliberate inclusion. The list of ingredients bore no indication as to the presence of beef meat or other bovine derived ingredients. I am  |
|-------------|-----------------------------------|------------|-----------|---------------------|-----|--------------------|--|
|             |                                   |            |           |                     |     |                    | therefore of the opinion that the trade label falsely describes the food within the meaning of Section 15 of the Food Safety Act 1990.   |
|             |                                   |            |           |                     |     |                    | The sample was analysed for the presence of DNA from beef (Bos taurus), pork (Sus scrofa), lamb/sheep (Ovis aries), goat (Capra hircus), horse (Equus caballus), chicken (Gallus gallus) and turkey (Meleagris gallopavo), using a semi-quantitative method (real-time PCR). The method estimates the proportion of DNA of each species in the total DNA from all the tested species. The method has a detection limit of 0.1% and a quantification limit of 1%. |
|             |                                   |            |           |                     |     |                    | Of these seven species, the only DNA detected showed that the sample consisted of sheep meat (Ovis aries), and not goat meat as described.   |
| 52600510002 | London<br>Borough of<br>Redbridge | 06/03/2017 | Retailers | Sections 31<br>& 43 | N/A | MIXED<br>GOAT MEAT | The sample is therefore not of the nature demanded, contrary to the Food Safety Act 1990.  |
|             | London                            |            |           |                     |     |                    | The sample was analysed for the presence of DNA from beef (Bos taurus), pork (Sus scrofa), lamb/sheep (Ovis aries), goat (Capra hircus), horse (Equus caballus), chicken (Gallus gallus) and turkey (Meleagris gallopavo), using a semi-quantitative method (real-time PCR). The method estimates the  |
| 52600510005 | Borough of Redbridge              | 06/03/2017 | Retailers | Sections 31<br>& 43 | N/A | GOAT MEAT          | proportion of DNA of each species in the total DNA from all the tested species. The method   |

|                      |                                       |            |  |                     |     |                        | has a detection limit of 0.1% and a quantification limit of 1%.  |
|----------------------|---------------------------------------|------------|--|---------------------|-----|------------------------|--|
|                      |                                       |            |  |                     |     |                        | Of these seven species, the only DNA detected showed that the sample consisted of sheep meat (Ovis aries), and not goat meat as described.   |
|                      |                                       |            |  |                     |     |                        | The sample is therefore not of the nature demanded, contrary to the Food Safety Act 1990.  |
|                      |                                       |            |  |                     |     |                        | Meat from the sample was analysed for the presence of DNA from cow (Bos taurus), pig (Sus scrofa), sheep (Ovis aries), horse (Equus caballus) and chicken (Gallus gallus),               |
|                      |                                       |            |  |                     |     |                        | using a semi-quantitative method (real-time PCR). The method estimates the proportion of DNA of each species in the total DNA from all the tested species. The method has a              |
|                      |                                       |            |  |                     |     |                        | detection limit of 0.1% and a quantification limit of 1%. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all                |
|                      |                                       |            |  |                     |     |                        | tested species and each individual species in<br>bands as follows: Major part (61 - 100%),<br>Medium part (31 - 60%), Minor part (6 - 30%),<br>Diminutive part (1 - 5%), Very diminutive |
|                      |                                       |            |  |                     |     |                        | part (<1%).  |
| 865HQINET01<br>03150 | North East<br>Lincolnshire<br>Council | 18/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB<br>DONER<br>KEBAB | The sample was described as 'Lamb Doner kebab'. DNA of cow and sheep was detected in the sample.   |

|                      |                                       |            |  |                     |     |                | I am of the opinion that the meat ingredients used in a meat product described as a 'Lamb Doner Kebab' should be derived from sheep.  |
|----------------------|---------------------------------------|------------|--|---------------------|-----|----------------|---|
|                      |                                       |            |  |                     |     |                | I am further of the opinion that the sample was not of the nature demanded by the purchaser.  |
|                      |                                       |            |  |                     |     |                | Meat from the sample was analysed for the presence of DNA from cow (Bos taurus), pig (Sus scrofa), sheep (Ovis aries), horse (Equus caballus) and chicken (Gallus gallus),      |
|                      |                                       |            |  |                     |     |                | using a semi-quantitative method (real-time PCR). The method estimates the proportion of DNA of each species in the total DNA from all the tested species. The method has a     |
|                      |                                       |            |  |                     |     |                | detection limit of 0.1% and a quantification limit of 1%. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all       |
|                      |                                       |            |  |                     |     |                | tested species and each individual species in bands as follows: Major part (61 - 100%), Medium part (31 - 60%), Minor part (6 - 30%), Diminutive part (1 - 5%), Very diminutive |
|                      |                                       |            |  |                     |     |                | part (<1%).   |
| 865HQINET01<br>03146 | North East<br>Lincolnshire<br>Council | 18/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | DONER<br>KEBAB | The sample was described as 'Doner kebab'. DNA of cow and sheep was detected in the sample.   |

|                                      | 1         | Т                   |                     | T                      |  |
|--------------------------------------|-----------|---------------------|---------------------|------------------------|--|
|                                      |           |                     |                     |                        | I am of the opinion that, unless the name of the food is otherwise qualified, the only meat ingredients used in a meat product described as a 'kebab' should be derived from sheep.  |
|                                      |           |                     |                     |                        | I am further of the opinion that the sample was not of the nature demanded by the purchaser.   |
|                                      |           |                     |                     |                        | DNA was extracted from the meat from the sample. Nine real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken), Cervus elaphus (Deer), Equus asinus (Donkey) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. |
|                                      |           |                     |                     |                        | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:  |
|                                      |           |                     |                     |                        | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
| Northan hire Cot 23400160039 Council | Retailers | Sections 31<br>& 43 | Sections<br>31 & 43 | LAMB<br>DONER<br>KEBAB | The following species were detected in the sample:   |

|             |                          | T          |           | T           | 1        |                       |   |
|-------------|--------------------------|------------|-----------|-------------|----------|-----------------------|---|
|             |                          |            |           |             |          |                       | Chicken (major part) Sheep (minor part) Beef (very diminutive part)  In my opinion, the presence of less than 1% of beef DNA in the sample is unlikely to be due to deliberate substitution.  In my opinion, the meat present in a sample described as 'lamb doner kebab' should consist solely of sheep meat. Consequently, I am of the opinion that the sample was not of the substance demanded. |
|             |                          |            |           |             |          |                       | DNA was extracted from the meat from the sample. Nine real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken), Cervus elaphus (Deer), Equus asinus (Donkey) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.                    |
|             |                          |            |           |             |          |                       | The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:   |
|             | Northamptons hire County |            |           | Sections 31 | Sections | SPAGHETTI<br>BOLOGNES | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).   |
| 23400160143 | _                        | 29/06/2017 | Retailers | & 43        | 31 & 43  | E - BEEF              |   |

|             |                            |            |  |                     |     |            | The following species were detected in the sample:  Beef (major part) Chicken (diminutive part)  In my opinion, the meat present in a sample described as 'spaghetti bolognese - beef' should consist solely of beef. Consequently, I am of the opinion that the sample was not of the  |
|-------------|----------------------------|------------|--|---------------------|-----|------------|---|
| 87600090784 | Portsmouth<br>City Council | 18/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Section 43          | N/A | Lamb Doner | substance demanded.  The sample was obtained from a catering establishment and was described as 'lamb Doner'. The results show that the sample contains sheep, beef meat and pork meat. The amount of sheep and beef meat equated to greater than 10 per cent of the meat and the quantity of pork meat present was less than 1%. In my opinion the amount of sheep meat and beef meat is consistent with deliberate inclusion whereas the amount of pork is consistent with contamination. In my opinion a lamb doner kebab must only contain sheep meat. I am therefore of the opinion that the sample is not of the nature demanded by a purchaser within the meaning of Section 14 of The Food Safety Act 1990. |
| 87600090781 | Portsmouth<br>City Council | 18/01/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | Lamb Doner | The sample was obtained from a catering establishment and was described as 'lamb Doner'. The results show that the sample contains sheep, beef meat and pork meat. The amount of sheep and beef equated to greater than 10 per cent of the meat and the quantity of pork meat present was less than 1%. In my opinion the amount of sheep meat and beef meat is consistent with deliberate inclusion whereas the amount of pork is consistent with contamination. In my opinion   |

|             |               |            | I         | 1           |     |           |   |
|-------------|---------------|------------|-----------|-------------|-----|-----------|---|
|             |               |            |           |             |     |           | a lamb doner kebab must only contain sheep    |
|             |               |            |           |             |     |           | meat. I am therefore of the opinion that the  |
|             |               |            |           |             |     |           | sample is not of the nature demanded by a     |
|             |               |            |           |             |     |           | purchaser within the meaning of Section 14 of |
|             |               |            |           |             |     |           | The Food Safety Act 1990.                     |
|             |               |            |           |             |     |           | DNA was extracted from the sample. Seven      |
|             |               |            |           |             |     |           | real-time PCR assays for Bos taurus (Beef),   |
|             |               |            |           |             |     |           | Sus scrofa (Pork), Ovis aries (Sheep), Capra  |
|             |               |            |           |             |     |           | hircus (Goat), Equus caballus (Horse), Gallus |
|             |               |            |           |             |     |           | gallus (Chicken) and Meleagris gallopavo      |
|             |               |            |           |             |     |           | (Turkey) were then applied to detect and      |
|             |               |            |           |             |     |           | measure the amount of those animal species    |
|             |               |            |           |             |     |           | present. The measurement is semi-             |
|             |               |            |           |             |     |           | quantitative, and estimates from the detected |
|             |               |            |           |             |     |           | signals the amount of DNA present for all     |
|             |               |            |           |             |     |           | tested species and each individual species in |
|             |               |            |           |             |     |           | bands as follows:                             |
|             |               |            |           |             |     |           | Major part (60 - 100%)                        |
|             |               |            |           |             |     |           | Medium part (30 - 60%)                        |
|             |               |            |           |             |     |           | Minor part (5 - 30%)                          |
|             |               |            |           |             |     |           | Diminutive part (1 - 5%)                      |
|             |               |            |           |             |     |           | Very diminutive part (<1%).                   |
|             |               |            |           |             |     |           | у этими и ран ( т. т. т.)                     |
|             |               |            |           |             |     |           | The following species were detected in the    |
|             |               |            |           |             |     |           | sample:                                       |
|             |               |            |           |             |     |           | Beef (major part)                             |
|             |               |            |           |             |     |           | Sheep (dinimutive part)                       |
|             |               |            |           |             |     |           | Pork (diminutive part)                        |
|             | Rhondda       |            |           |             |     |           |   |
|             | Cynon Taf     |            |           |             |     |           | The sample was described as "Steak Mince",    |
|             | County        |            |           | Penygraig   |     |           | and was therefore not of the substance        |
| 567HQ228800 | Borough       |            |           | Family      |     | STEAK     | demanded, contrary to the requirements of     |
| 04287       | Council       | 29/03/2017 | Retailers | Butchers    | N/A | MINCE     | Section 14 of the Food Safety Act 1990.       |
|             |               |            |           |             |     |           | The sample was analysed for the presence of   |
|             |               |            |           |             |     |           | DNA from beef (Bos taurus), pork (Sus         |
|             | Royal Borough |            |           |             |     |           | scrofa), lamb/sheep (Ovis aries), goat (Capra |
|             | of Kensington |            |           | Sections 31 |     |           | hircus), horse (Equus caballus), chicken      |
| 52000570136 | & Chelsea     | 17/02/2017 | Retailers | & 43        | N/A | GOAT MEAT | (Gallus gallus) and turkey (Meleagris         |

|  |            |  |                     |     |                | quantification limit of 1%.  Of these seven species, the only DNA found was that of sheep, indicating that the sample consisted of sheep meat (Ovis aries) and not goat meat.  The sample is therefore not of the nature demanded, contrary to the Food Safety Act 1990.   |
|--|------------|--|---------------------|-----|----------------|--|
|  |            |  |                     |     |                | DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present.  The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows: |
| Sandwell<br>Metropolitan<br>Borough<br>42300370122 Council | 27/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB<br>BURGER | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%)  The following species were detected in the sample: Sheep (major part)  |

|                      |                   |            |           |                     |                     |                | Chicken (minor part) Beef (very diminutive part)  The sample was described as "Lamb Burger". The Products Containing Meat etc. (England) Regulations 2014 prescribe that a lamb burger must contain a minimum of 62% lamb. In my opinion a food described as lamb burger should predominantly contain meat from lamb. The sample contained up to 30% chicken in addition to lamb.   |
|----------------------|-------------------|------------|-----------|---------------------|---------------------|----------------|---|
|                      |                   |            |           |                     |                     |                | I am therefore of the opinion that the name "Lamb Burger" is misleading as to the true nature of the food, which is a lamb and chicken burger.  |
|                      | Staffordshire     |            |           |                     |                     |                | Species determination carried out via DNA extraction followed by RT-PCR gave positive results for sheep (Ovis aries), cow (Bos taurus) and chicken (Gallus gallus) species in this sample; pig (Sus scrofa), goat (Capra hircus) and horse (Equus caballus) species results were negative. Beef DNA was present at a level of less than 0.1%; chicken DNA was present at a level of greater than 1%. The ingredients list supplied on the product label declared mutton as the only meat ingredient. In my opinion, the presence of chicken DNA in a product that declares only mutton as the meat ingredient renders the food not of the substance demanded by the purchaser contrary to the requirements of the Food Safety Act 1990. The sample did not comply with the requirements of The Food Information Regulations 2014 which enact and enforce Regulation (EU) no 1169/2011 on the provision of food information to |
| 286HQ271800<br>03076 | County<br>Council | 24/01/2017 | Retailers | Sections 31<br>& 43 | Sections<br>31 & 43 | SHISH<br>KEBAB | consumers as the ingredients declaration gave a quantitative (QUID) indication for salt   |

|             |               |            |           |             |          |                 | of 6% however, the nutritional information gave a value of 1.8g/100g for salt; one (or both) of these must be incorrect, the information is therefore misleading to |
|-------------|---------------|------------|-----------|-------------|----------|-----------------|---|
|             |               |            |           |             |          |                 | consumers. Additionally, the ingredients list was not headed by the word 'Ingredients' as   |
|             |               |            |           |             |          |                 | required. Regulation (EC) No 853/2004 laying down specific hygiene rules for  |
|             |               |            |           |             |          |                 | foodstuffs requires food business operators to  |
|             |               |            |           |             |          |                 | mark a product of animal origin with either a   |
|             |               |            |           |             |          |                 | health mark or an identification mark. This sample label displayed no health or   |
|             |               |            |           |             |          |                 | identification mark and therefore failed to   |
|             |               |            |           |             |          |                 | comply with the aforementioned legislation.   |
|             |               |            |           |             |          |                 | A trace of milk allergen was detected in the food; no detectable amounts of the allergenic  |
|             |               |            |           |             |          |                 | ingredients soya, peanut, mustard and   |
|             |               |            |           |             |          |                 | sulphites were detected in the product. The   |
|             |               |            |           |             |          |                 | presence of celery was declared in the  |
|             |               |            |           |             |          |                 | product's ingredients list. The ingredients list  |
|             |               |            |           |             |          |                 | declared the presence of beef species only.  Species determination carried out via DNA  |
|             |               |            |           |             |          |                 | extraction followed by RT-PCR gave positive   |
|             |               |            |           |             |          |                 | results for cow (Bos taurus) and pig (Sus   |
|             |               |            |           |             |          |                 | scrofa) species in this sample; sheep (Ovis   |
|             |               |            |           |             |          |                 | aries), chicken (Gallus gallus), goat (Capra  |
|             |               |            |           |             |          |                 | hircus) and horse (Equus caballus) species  |
|             |               |            |           |             |          |                 | results were negative. Beef and pork were both main components of the meat within the   |
|             |               |            |           |             |          |                 | sample. In my opinion, the presence of pork   |
|             |               |            |           |             |          |                 | in a food that only declares beef species   |
|             |               |            |           |             |          | A MINCED        | renders that food not of the substance  |
|             |               |            |           |             |          | BEEF AND        | demanded by the purchaser contrary to the   |
|             |               |            |           |             |          | TOMATO<br>SAUCE | requirements of the Food Safety Act 1990. The sample did not comply with the  |
|             |               |            |           |             |          | SERVED          | requirements of The Food Information  |
|             | Staffordshire |            |           |             |          | WITH            | Regulations 2014 which enact and enforce  |
| 286HQ271800 | County        |            |           | Sections 31 | Sections | COOKED          | Regulation (EU) No 1169/2011 on the   |
| 03178       | Council       | 20/03/2017 | Retailers | & 43        | 31 & 43  | SPAGHETTI       | provision of food information to consumers for  |

|             |   |            |  |                     |     |                          | the following reasons: The presence of the allergenic ingredient milk was not indicated on the product label. There were no quantitative indications for the tomato and spaghetti components specified in the name of the food.   |
|-------------|---|------------|--|---------------------|-----|--------------------------|---|
| 89400100019 | Thurrock<br>Council                           | 16/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | REGULAR<br>LAMB<br>DONOR | Analysis indicates that the sample contains sheep meat, and in excess of 10% beef meat. The sample was described as 'Regular Lamb Doner'. In my opinion a lamb doner kebab must only contain sheep meat. I am therefore of the opinion that the sample is not of the nature demanded by a purchaser within the meaning of Section 14 of The Food Safety Act 1990. I base my opinion on the Lacors guidance on the composition, description and labelling of doner kebabs published November 2009. |
| 43300820002 | Walsall<br>Metropolitan<br>Borough<br>Council | 30/01/2017 | Retailers                                | Sections 31<br>& 43 | N/A | GOAT MIX                 | The sample was analysed for the presence of a range of meat species using DNA techniques, ovine (sheep) species only was detected in the sample. It is my opinion that a food described as 'goat mix' should consist of goat meat only, this sample contained meat of ovine origin only, contrary to the description provided.  |
| 43300820005 | Walsall<br>Metropolitan<br>Borough<br>Council | 30/01/2017 | Retailers                                | Sections 31<br>& 43 | N/A | GOAT MIX                 | The sample was analysed for the presence of a range of meat species using DNA techniques, ovine (sheep) species only was detected in the sample. It is my opinion that a food described as 'goat mix' should consist of goat meat only, this sample contained meat of ovine origin only, contrary to the description provided.  |
| 43300920002 | Walsall<br>Metropolitan<br>Borough<br>Council | 28/02/2017 | Retailers                                | Sections 31<br>& 43 | N/A | GOAT MEAT                | The sample was analysed for a range of meat species using DNA techniques, DNA from ovine (sheep) species only was detected in the sample, contrary to the description provided.   |

| 43300960101 | Walsall<br>Metropolitan<br>Borough<br>Council | 22/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB<br>SHISHLICK                                   | The sample was analysed for a range of meat species using DNA techniques. Ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Ovine DNA = 0.3% of total amplified DNA Chicken DNA = 99.7% of total amplified DNA I am therefore of the opinion that the sample is made from chicken meat (sheep DNA being present only at trace level) contrary to the description 'Lamb shashlick' |
|-------------|---|------------|--|---------------------|-----|---|---|
| 43300960047 | Walsall<br>Metropolitan<br>Borough<br>Council | 21/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | HOT BALL -<br>FINE<br>MINCED<br>LAMB                | The meat part of the sample was analysed for a range of meat species using DNA techniques. Ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Ovine DNA = 18.6% of total amplified DNA Chicken DNA = 81.4% of total amplified DNA It is my opinion that a sample described as 'Hot Ball - fine lamb mince' should consist only of lamb meat unless further qualified.              |
| 43300930030 | Walsall<br>Metropolitan<br>Borough<br>Council | 13/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | KEEMA NAN<br>MINCED<br>(MADE<br>WITH LAMB<br>MINCE) | The meat part of the sample was analysed for a range of meat species using DNA techniques. Ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the amount of total amplified DNA as follows: Ovine DNA = 62% of total amplified DNA Chicken DNA = 38% of total amplified DNA It is my opinion that a sample described as 'Keema Nan made with lamb mince' should consist only of lamb meat unless further qualified.              |
| 43300960050 | Walsall<br>Metropolitan<br>Borough<br>Council | 21/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | SHEEK<br>KEBAB -<br>MINCE<br>LAMB                   | The meat part of the sample was analysed for a range of meat species using DNA techniques. Ovine and chicken DNA was detected in the sample. The amount of each DNA type was quantified in relation to the  |

| 43300900005 | Walsall<br>Metropolitan<br>Borough<br>Council | 17/02/2017 | Retailers                                | Sections 31<br>& 43 | N/A | GOAT MEAT                                | amount of total amplified DNA as follows: Ovine DNA = 19.9% of total amplified DNA Chicken DNA = 80.1% of total amplified DNA It is my opinion that a sample described as 'Sheek Kebab - lamb mince' should consist only of lamb meat unless further qualified. The sample was analysed for a range of meat species using DNA techniques, DNA from ovine (sheep) species only was detected in the sample, contrary to the description provided.                                   |
|-------------|---|------------|--|---------------------|-----|--|---|
| 43300960098 | Walsall<br>Metropolitan<br>Borough<br>Council | 22/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | LAMB<br>PARATHA<br>KEBAB - NO<br>PEANUTS | The sample was analysed for the presence of peanut, which was not detected in the sample. The sample was analysed for a range of meat species using DNA techniques. Chicken DNA only was detected in the sample. It is my opinion that a sample described as 'Lamb Paratha Kebab' should consist only of lamb meat unless further qualified. I am therefore of the further opinion, that the sample is not of the nature demanded within the meaning of the Food Safety Act 1990. |
| 1000000000  | Courion                                       | 22/00/2011 | Catororo                                 | W 10                |     |  | The results above demonstrate that the meat in the sample is beef. No sheep DNA was detected demonstrating an absence of lamb.  In my opinion the meat in a food sold as Lamb Quarter Pounder must consist of lamb and not beef.  |
| 43700141255 | West<br>Yorkshire<br>Council                  | 31/01/2017 | Retailers                                | Sections 31<br>& 43 | N/A | 1x Lamb<br>Quarter<br>pounder            | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.  |

|             |                              |            |           |                     |     |            | Meat from the sample was analysed for the presence of DNA from cow (Bos taurus), pig (Sus scrofa), sheep (Ovis aries), horse (Equus caballus) and chicken (Gallus gallus), using a semi-quantitative method (real-time PCR). The method estimates the proportion of DNA of each species in the total DNA from all the tested species. The method has a detection limit of 0.1% and a quantification limit of 1%. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows: Major part (61 - 100%), Medium part (31 - 60%), Minor part (6 - 30%), Diminutive part (1 - 5%), Very diminutive |
|-------------|------------------------------|------------|-----------|---------------------|-----|------------|--|
|             |                              |            |           |                     |     |            | part (<1%).  |
|             |                              |            |           |                     |     |            | DNA of sheep and chicken was detected in the sample.   |
|             |                              |            |           |                     |     |            | The results of analysis were consistent with the meat being derived from sheep and chicken.  |
| 43700211445 | West<br>Yorkshire<br>Council | 19/01/2017 | Retailers | Sections 31<br>& 43 | N/A | Lamb mince | I am of the opinion that a food described as 'Lamb Mince' should be derived only from sheep and that the food was falsely described.   |

|             |                              |            |  |                     |     |                               | The results above demonstrate that the sample contains meat from sheep and none from goat.  |
|-------------|------------------------------|------------|--|---------------------|-----|-------------------------------|---|
|             |                              |            |  |                     |     |                               | In my opinion a food described as Curried<br>Goat must not contain meat from sheep and<br>must contain meat solely from goat.   |
| 43700250505 | West<br>Yorkshire<br>Council | 07/04/2017 | Retailers                                | Sections 31<br>& 43 | N/A | Curried Goat                  | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
|             |                              |            |  |                     |     |                               | The results above demonstrate that the sample contains meat from cow and none from sheep.   |
|             |                              |            |  |                     |     |                               | In my opinion a food described as Lamb Curry must not contain meat from cow and must contain meat solely from sheep.  |
| 43700212077 | West<br>Yorkshire<br>Council | 15/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | Lamb curry                    | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
|             | West                         |            |  | Sections 24         |     |                               | In my opinion the meat in a food described as (lamb/mutton) shish/kebab must consist wholly of meat from sheep. The meat in this sample was a mixture of lamb or mutton and beef. |
| 43700212695 | Yorkshire<br>Council         | 12/05/2017 | Retailers                                | Sections 31<br>& 43 | N/A | (lamb/mutton<br>) shish/kebab |   |

|             |                              |            |           |                     | 1   |                                   |  |
|-------------|------------------------------|------------|-----------|---------------------|-----|-----------------------------------|--|
|             |                              |            |           |                     |     |                                   | I am further of the opinion that the sample was not of the substance demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
|             |                              |            |           |                     |     |                                   | The cooked cured meat contained no DNA of pig origin. The presence of DNA from turkey indicates that the material is cured poultry product. In my opinion the word ham, when used as part of a food name |
|             |                              |            |           |                     |     |                                   | without qualification, can refer only to cured meat from the hind leg of a pig.  |
| 43700141595 | West<br>Yorkshire<br>Council | 09/03/2017 | Retailers | Sections 31<br>& 43 | N/A | Tropican<br>ham &<br>cheese pizza | I am further of the opinion that the sample was not of the substance demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
|             |                              |            |           |                     |     |                                   | The results above demonstrate that the sample contains meat from sheep and none from goat.   |
|             |                              |            |           |                     |     |                                   | In my opinion a food described as Curried<br>Goat must not contain meat from sheep and<br>must contain meat solely from goat.  |
| 43700250510 | West<br>Yorkshire<br>Council | 07/04/2017 | Retailers | Sections 31<br>& 43 | N/A | Curried Goat                      | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.   |
| 43700250521 | West<br>Yorkshire<br>Council | 07/04/2017 | Retailers | Sections 31<br>& 43 | N/A | Curried Goat                      | The results above demonstrate that the sample contains meat from sheep and none from goat.   |

|             |                              | 1          | 1  | 1                   |     | 1                |  |
|-------------|------------------------------|------------|--|---------------------|-----|------------------|--|
|             |                              |            |  |                     |     |                  | In my opinion a food described as Curried Goat must not contain meat from sheep and must contain meat solely from goat.  |
|             |                              |            |  |                     |     |                  | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.                                       |
|             |                              |            |  |                     |     |                  | A minor part of the extracted DNA was from cow demonstrating that the sample contains meat from cow. Separate comparison of the mitochondrial genome with a database including |
|             |                              |            |  |                     |     |                  | the mitochondrial genome of the Common Ostrich (Struthio camelus) did not produce a match for ostrich.   |
|             |                              |            |  |                     |     |                  | In my opinion a food described as Ostrich Mince must not contain meat from cow.  |
| 43700141550 | West<br>Yorkshire<br>Council | 03/03/2017 | Slaughter<br>houses                      | Sections 31<br>& 43 | N/A | Ostrich<br>Mince | I am further of the opinion that the sample was not of the substance demanded within the meaning of Section 14 of the Food Safety Act 1990.                                    |
| 43700212157 | West<br>Yorkshire<br>Council | 20/03/2017 | Restaura<br>nts and<br>other<br>Caterers | Sections 31<br>& 43 | N/A | goat curry       | The results above demonstrate that the sample contains meat from sheep and none from goat.   |

|             |                                | ı          | 1         |                     |     | 1                              |   |
|-------------|--------------------------------|------------|-----------|---------------------|-----|--------------------------------|---|
|             |                                |            |           |                     |     |                                | In my opinion a food described as Goat Curry must not contain meat from sheep and must contain meat solely from goat.   |
|             |                                |            |           |                     |     |                                | I am further of the opinion that the sample was not of the nature demanded within the meaning of Section 14 of the Food Safety Act 1990.  |
|             |                                |            |           |                     |     |                                | In my opinion the meat in a food described as Kofta (Lamb/Mutton) must consist wholly of meat from sheep. The meat in this sample was a mixture of lamb or mutton and beef.   |
| 43700212698 | West<br>Yorkshire<br>Council   | 12/05/2017 | Retailers | Sections 31<br>& 43 | N/A | kofta<br>(lamb/mutton<br>)     | I am further of the opinion that the sample was not of the substance demanded within the meaning of Section 14 of the Food Safety Act 1990.   |
|             |                                |            |           |                     |     |                                | Approximately 5% of the DNA extracted from the sample was of sheep origin which was indicative of the presence of meat derived from sheep. I am of the opinion that food described as 'extra lean minced beef' should not contain meat derived from sheep and that the food was falsely described. The Food Information Regulations 2014 require that |
| 43400660040 | Wigan Council                  | 04/07/2017 | Retailers | Sections 31<br>& 43 | N/A | EXTRA<br>LEAN<br>MINCE<br>BEEF | lean minced meat must have: a fat content of not more than 7%, and - a collagen/meat protein ratio of not more than 12%. The fat content and the collagen/meat protein ratio of the sample were satisfactory.   |
| 33000071609 | Wiltshire<br>County<br>Council | 25/08/2017 | Retailers | Sections 31<br>& 43 | N/A | BEEFBURG<br>ERS                | The sample bore the description 'beef burger'. The sample contained beef. Pork was also detected in the sample at a level equivalent to approximately 2% lean pork meat. In my  |

|             |                   |            |           |                     |     |                | opinion a product bearing the description 'beef burger' is permitted to contain pork meat however it must also contain at least 62% beef meat. The Food Information Regulations 2014 require prepacked for direct sale meat products to bear an indication as to the quantity of meat used in the preparation of the food. In my opinion the sample consists of beef burgers which have been prepacked for direct sale and I am of the opinion that the quantity of beef used in the preparation of the food must be indicated. The sample labelling |
|-------------|-------------------|------------|-----------|---------------------|-----|----------------|--|
|             |                   |            |           |                     |     |                | bore no such quantity declaration.  DNA was extracted from the sample. Seven real-time PCR assays for Bos taurus (Beef), Sus scrofa (Pork), Ovis aries (Sheep), Capra hircus (Goat), Equus caballus (Horse), Gallus gallus (Chicken) and Meleagris gallopavo (Turkey) were then applied to detect and measure the amount of those animal species present. The measurement is semi-quantitative, and estimates from the detected signals the amount of DNA present for all tested species and each individual species in bands as follows:            |
|             |                   |            |           |                     |     |                | Major part (60 - 100%) Medium part (30 - 60%) Minor part (5 - 30%) Diminutive part (1 - 5%) Very diminutive part (<1%).  |
|             | Wrexham           |            |           |                     |     |                | The following species were detected in the sample: Beef (major part) Sheep (minor part)  |
| 57100050542 | County<br>Council | 30/01/2017 | Retailers | Sections 31<br>& 43 | N/A | MINCED<br>BEEF | The sample was described as minced beef, and was therefore not of the substance  |

Annex B IR106 – FOI 2227 Meat samples taken by LAs in 2017

|  |  |  | demanded, contrary to the requirements of Section 14 of the Food Safety Act 1990. |
|--|--|--|---|
|  |  |  |   |