**Composition of meat coproducts and reference data**

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# Composition of beef coproducts

### Table 1 : Destinations, group of tissues and composition of beef coproducts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Co-produCTs | Destination | Group of tissues | Water (%) | DRY MATTER (%) | Lipids (%) | Protéins (%) |
| Abomasum | Human food | GIT | 75 | 25 | 5 | 20 |
| Abomasum fat | Fat and greaves C3 | GIT | 20 | 80 | 75 | 5 |
| Aponeurosis | Human food | Carcass | 75 | 25 | 2 | 23 |
| Bile | PAP C3 | Others | 90 | 10 | 2 | 8 |
| Blood | PAP C3 | Others | 80 | 20 | 2 | 18 |
| Blood | Pet food | Others | 80 | 20 | 2 | 18 |
| Bones | Gelatin C3 | Carcass | 60 | 40 | 15 | 15 |
| Bones of head, brain, eyes and teeth | C1-C2 for disposal | Others | 62 | 38 | 2 | 30 |
| Cheek  | Human food | Others | 75 | 25 | 3 | 21 |
| Cheek  | Human food | Others | 75 | 25 | 3 | 21 |
| Cheek trimmings | Pet food | Others | 75 | 25 | 3 | 21 |
| Chops | Pet food | Others | 68 | 32 | 2 | 30 |
| Contents of intestines | Spreading/Compost | GIT | 85 | 15 | 13 | 2 |
| Contents of therumen | Spreading/Compost | GIT | 68 | 32 | 29 | 3 |
| Ears | PAP C3 | Others | 65 | 35 | 10 | 24 |
| Esophagus | Pet food | Others | 75 | 25 | 4 | 20 |
| Fat | Fat and greaves C3 | Carcass | 10 | 90 | 88 | 2 |
| Fat around heart | Fat and greaves C3 | Others | 10 | 90 | 88 | 2 |
| Fat in the kidney | Fat and greaves C3 | Others | 10 | 90 | 88 | 2 |
| Feet (without hooves) | Gelatin C3 | Others | 69 | 31 | 5 | 20 |
| Floatation fat | Spreading/Compost | Others | 15 | 85 | 84 | 1 |
| Forehead | C1-C2 for disposal | Others | 68 | 32 | 2 | 30 |
| Forelock | PAP C3 | Others | 20 | 80 | 0 | 79 |
| Gallbladder | Pet food | Others | 75 | 25 | 5 | 20 |
| Head trimmings | Pet food | Others | 75 | 25 | 3 | 21 |
| Heart | Human food | Others | 75 | 25 | 3 | 20 |
| Heart trimmings | Pet food | Others | 75 | 25 | 3 | 21 |
| Hide | Skin tannery C3 | Others | 68 | 32 | 2 | 30 |
| Hooves | PAP C3 | Others | 20 | 80 | 0 | 79 |
| Horns | PAP C3 | Others | 20 | 80 | 0 | 79 |
| Kidney | Human food | Others | 75 | 25 | 2 | 21 |
| Large intestine | C1-C2 for disposal | GIT | 75 | 25 | 5 | 20 |
| Liver | Human food | Liver | 70 | 30 | 5 | 20 |
| Liver trimmings | Pet food | Liver | 75 | 25 | 3 | 21 |
| Lower jaw | PAP C3 | Others | 60 | 40 | 15 | 15 |
| Lungs | Pet food | Others | 74 | 26 | 1 | 25 |
| Mask | Skin tannery C3 | Others | 68 | 32 | 2 | 30 |
| Mesenteric fat | C1-C2 for disposal | GIT | 10 | 90 | 88 | 2 |
| Muscle | Human food | Carcass | 76 | 24 | 5 | 20 |
| Muzzle | Human food | Others | 68 | 32 | 2 | 30 |
| Omasum | Human food | GIT | 75 | 25 | 5 | 20 |
| Omasum fat | Fat and greaves C3 | GIT | 20 | 80 | 75 | 5 |
| Rumen and forestomach | Human food | GIT | 75 | 25 | 5 | 20 |
| Rumen fat | Fat and greaves C3 | GIT | 10 | 80 | 75 | 5 |
| Sanitary seizures | C1-C2 for disposal | Others | 66 | 34 | 16 | 17 |
| Screening and sifting wastes | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Small intestine | PAP C3 | GIT | 75 | 25 | 5 | 20 |
| Spinal cord | C1-C2 for disposal | Others | 75 | 25 | 10 | 10 |
| Spinal cord waste | C1-C2 for disposal | Others | 75 | 25 | 10 | 10 |
| Spine | C1-C2 for disposal | Carcass | 60 | 40 | 15 | 15 |
| Spleen | Pet food | Others | 75 | 25 | 4 | 21 |
| Stillborn | PAP C3 | GIT | 75 | 25 | 2 | 21 |
| Tallow | Fat and greaves C3 | Others | 10 | 90 | 88 | 2 |
| Tongue | Human food | Others | 72 | 28 | 10 | 16 |
| Tonsil | C1-C2 for disposal | Others | 75 | 25 | 12 | 10 |
| Trachea | Pet food | Others | 65 | 35 | 5 | 29 |
| Udder | Pet food | Others | 86 | 14 | 5 | 3 |
| Upper throat | Pet food | Others | 70 | 30 | 5 | 20 |
| Water in the rumen | Spreading/Compost | GIT | 99 | 1 | 0 | 3 |

### Table 2: Destinations, group of tissues and composition of calf coproducts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Co-produCts | Destination | Group of tissues | Water (%) | DRY MATTER (%) | Lipids (%) | Protéins (%) |
| Abomasum | Human food | Others | 75 | 25 | 5 | 20 |
| Aponevrosis (1%) | Human food | Carcass | 70 | 21 | 4 | 25 |
| Bile | PAP C3 | Others | 90 | 10 | 2 | 8 |
| Blood | C1-C2 for disposal | Others | 80 | 20 | 2 | 18 |
| Bones (11%) | Gelatin C3 | Carcass | 65 | 35 | 2 | 25 |
| Dead individuals | C1-C2 for disposal | Others | 80 | 20 | 4 | 10 |
| Fat (8%) | Fat and greaves C3 | Carcass | 10 | 90 | 88 | 2 |
| Fat from breasts and penis | Fat and greaves C3 | Others | 10 | 90 | 88 | 2 |
| Feet (without hooves) | Human food | Others | 69 | 31 | 5 | 20 |
| Floatation fat | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Head | Human food | Others | 68 | 32 | 5 | 23 |
| Intestines | C1-C2 for disposal | Others | 75 | 25 | 5 | 20 |
| Kidney | Human food | Others | 75 | 25 | 2 | 21 |
| Manure | Spreading/Compost | Others | 0 | 0 | 0 | 0 |
| Meat | Human food | Carcass | 75 | 25 | 4 | 20 |
| Pluck | Human food | Others | 72 | 28 | 4 | 22 |
| Rumen and forestomach | Human food | Others | 75 | 25 | 5 | 20 |
| SPA C3 | PAP C3 | Others | 99 | 1 | 0 | 1 |
| Screening and sifting wastes | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Skin | Skin tannery C3 | Others | 68 | 32 | 2 | 30 |
| Sludge | Spreading/Compost | Others | 0 | 0 | 0 | 0 |
| Spleen | Pet food | Others | 75 | 25 | 5 | 20 |
| Sweetbread | Human food | Others | 70 | 30 | 5 | 25 |

### Table 3: Destinations, group of tissues and composition of lamb coproducts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Co-produits | Destination | Group of tissues | Water (%) | DRY MATTER (%) | Lipids (%) | Protéins (%) |
| Blood | PAP C3 | Others | 80 | 20 | 2 | 18 |
| Blood | Spreading/Compost | Others | 80 | 20 | 2 | 18 |
| Bones | PAP C3 | Carcass | 60 | 40 | 15 | 15 |
| Brain | Human food | Others | 75 | 25 | 10 | 10 |
| Contents of the intestines | Spreading/Compost | Others | 85 | 15 | 8 | 7 |
| Dead individuals | C1-C2 for disposal | Others | 80 | 20 | 4 | 10 |
| Downgraded skin | PAP C3 | Others | 68 | 32 | 2 | 30 |
| Fat | PAP C3 | Carcass | 10 | 90 | 88 | 2 |
| Floatation fat | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Meat | Human food | Carcass | 76 | 24 | 5 | 20 |
| Other spa c1 | C1-C2 for disposal | Others | 68 | 32 | 5 | 23 |
| Other spa c3 | PAP C3 | Others | 68 | 32 | 4 | 25 |
| Pluck (liver, heart, trachea) | Human food | Liver | 72 | 28 | 4 | 22 |
| Pluck (liver, heart, trachea) | Pet food | Liver | 72 | 28 | 4 | 22 |
| Rumen and reticulum | Human food | GIT | 75 | 25 | 5 | 20 |
| Rumen and reticulum | Pet food | GIT | 75 | 25 | 5 | 20 |
| Sanitary seizures | C1-C2 for disposal | Others | 67 | 33 | 15 | 17 |
| Screening waste | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Sifting waste | C1-C2 for disposal | Others | 15 | 85 | 84 | 1 |
| Skin | Skin tannery C3 | Others | 68 | 32 | 2 | 30 |
| Small intestine | C1-C2 for disposal | GIT | 75 | 25 | 5 | 20 |
| Small intestine | Human food | GIT | 75 | 25 | 5 | 20 |
| Small intestine | PAP C3 | GIT | 75 | 25 | 5 | 20 |
| Stercoral matter | Spreading/Compost | Others | 85 | 15 | 8 | 7 |
| Thymus | Human food | Others | 70 | 30 | 5 | 25 |
| Thymus | Pet food | Others | 70 | 30 | 5 | 25 |
| Tongue | Human food | Others | 72 | 28 | 10 | 16 |

# Carcass yields and empty body weights according to animal type

### Tableau 4: Carcass Yields and Empty Body Weights at slaughter age for beefs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Breed | Category | Carcass Yield | Empty body weight at slaughter age | Source |
| Limousine | Heifer | 0,57 | 633 | IDELE |
| Limousine | Beef | 0,58 | 755 | IDELE |
| Limousine | Young Bull | 0,61 | 693 | IDELE |
| Limousine | Cull Cow | 0,55 | 736 | IDELE |
| Salers | Heifer | 0,52 | 613 | IDELE |
| Salers | Beef | 0,53 | 758 | IDELE |
| Salers | Young Bull | 0,55 | 740 | IDELE |
| Salers | Cull Cow | 0,5 | 690 | IDELE |
| Primholstein | Heifer | 0,49 | 586 | IDELE |
| Primholstein | Beef | 0,51 | 680 | IDELE |
| Primholstein | Young Bull | 0,52 | 692 | IDELE |
| Primholstein | Cull Cow | 0,48 | 648 | IDELE |
| Rouge des Prés | Heifer | 0,54 | 639 | IDELE |
| Rouge des Prés | Beef | 0,55 | 758 | IDELE |
| Rouge des Prés | Young Bull | 0,57 | 713 | IDELE |
| Rouge des Prés | Cull Cow | 0,52 | 704 | IDELE |
| Blonde d'Aquitaine | Heifer | 0,59 | 761 | IDELE |
| Blonde d'Aquitaine | Beef | 0,6 | 843 | IDELE |
| Blonde d'Aquitaine | Young Bull | 0,63 | 727 | IDELE |
| Blonde d'Aquitaine | Cull Cow | 0,52 | 927 | IDELE |
| Charolais | Heifer | 0,55 | 718 | IDELE |
| Charolais | Beef | 0,56 | 839 | IDELE |
| Charolais | Young Bull | 0,58 | 764 | IDELE |
| Charolais | Cull Cow | 0,53 | 804 | IDELE |
| Charolais x Rustique | Heifer | 0,54 | 639 | IDELE |
| Charolais x Rustique | Beef | 0,55 | 758 | IDELE |
| Charolais x Rustique | Young Bull | 0,57 | 713 | IDELE |
| Charolais x Rustique | Cull Cow | 0,52 | 704 | IDELE |
| Montbéliarde | Heifer | 0,52 | 542 | IDELE |
| Montbéliarde | Beef | 0,53 | 687 | IDELE |
| Montbéliarde | Young Bull | 0,55 | 707 | IDELE |
| Montbéliarde | Cull Cow | 0,5 | 632 | IDELE |
| Normande | Heifer | 0,52 | 617 | IDELE |
| Normande | Beef | 0,53 | 743 | IDELE |
| Normande | Young Bull | 0,55 | 695 | IDELE |
| Normande | Cull Cow | 0,5 | 698 | IDELE |
| Charolais x Pie Noire | Heifer | 0,52 | 639 | IDELE |
| Charolais x Pie Noire | Beef | 0,54 | 758 | IDELE |
| Charolais x Pie Noire | Young Bull | 0,56 | 713 | IDELE |
| Charolais x Pie Noire | Cull Cow | 0,51 | 704 | IDELE |
| Average | Heifer | 0,54 | 660 | Mean value |
| Average | Beef | 0,54 | 780 | Mean value |
| Average | Young Bull | 0,54 | 730 | Mean value |
| Average | Cull Cow | 0,55 | 742 | Mean value |

### Table 5: Carcass Yields and Empty Body Weights at slaughter age for calves

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Breed | Category | Carcass Yield | Empty body weight at slaughter age | Source |
| Limousine | Milk-fed | 0,58 | 271 | IDELE |
| Limousine | Rosé | 0,58 | 236 | IDELE |
| Aubrac | Milk-fed | 0,58 | 262 | IDELE |
| Aubrac | Rosé | 0,58 | 229 | IDELE |
| Primholstein | Milk-fed | 0,58 | 236 | IDELE |
| Primholstein | Rosé | 0,58 | 206 | IDELE |
| Blonde d'Aquitaine | Milk-fed | 0,58 | 284 | IDELE |
| Blonde d'Aquitaine | Rosé | 0,58 | 248 | IDELE |
| Charolais | Milk-fed | 0,58 | 252 | IDELE |
| Charolais | Rosé | 0,58 | 220 | IDELE |
| Montbéliarde | Milk-fed | 0,58 | 257 | IDELE |
| Montbéliarde | Rosé | 0,58 | 228 | IDELE |
| Normande | Milk-fed | 0,58 | 229 | IDELE |
| Normande | Rosé | 0,58 | 200 | IDELE |
| Croisé-lait | Milk-fed | 0,58 | 238 | IDELE |
| Croisé-viande | Rosé | 0,58 | 257 | IDELE |
| Average | Milk-fed | 0,58 | 252 | Mean value |
| Average | Rosé | 0,58 | 219 | Mean value |

### Table 6: Carcass Yields and Empty Body Weights at slaughter age for lambs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Breed | Category | Carcass Yield | Empty body weight at slaughter age | Source |
| Generic | Milk-fed hardy lamb | 0,48 | 36 | IDELE |
| Generic | Milk-fed heavy lamb | 0,48 | 39 | IDELE |
| Generic | Grass-fed heavy lamb | 0,46 | 41 | IDELE |
| Generic | Milk lamb | 0,48 | 36 | IDELE |
| Generic | Average | 0,475 | 38 | Mean value |

# Biophysical model parameters

### Table 7: model parameters for beefs, calves and lambs

|  |  |  |  |
| --- | --- | --- | --- |
|  | Beefs | CALVES | LAMBS |
| Gompertz Coefficient | 0.012 | 0.012 | 0.03 |
| Empty Body Weight at birth | 50 | 50 | 5 |
| Empty Body Weight at maturity | 1000 | 1000 | 65 |
| Birth Body Fat Percentage | 0.06 | 0.06 | 0.1 |
| Normal mature body Fat Percentage | 0.45 | 0.45 | 0.33 |
| Fat percentage at slaughter age | 0.30 | 0.30 | 0.25 |
| Ratio of Body Weight Water to Protein | 3 | 3.5 | 3.5 |
| Protein Energy Content (MJ/kg) | 49.167 | 49.167 | 49.167 |
| Lipid Energy Content (MJ/kg) | 55.352 | 55.352 | 55.352 |

### Table 8: Activity coefficients for beefs, calves and lambs

|  |  |  |  |
| --- | --- | --- | --- |
| Specie | Rearing mode | Details | *Cact* |
| *Beefs and calves* | Stall | Small area (little or no energy ) | 0 |
| Pasture | Sufficient forage (modest energy) | 0.17 |
| Grazing large areas | Open range land or hilly terrain (significant energy) | 0.36 |
| *Lambs* | Housed ewes | pregnancy in final trimester (50 d) | 0.009 |
| Grazing flat pasture | walk up to 1 km/day and expend very little energy to acquire feed | 0.0107 |
| Grazing hilly pâsture | walk up to 5 km/day and expend significant energy to acquire feed | 0.024 |
| Housed fattening lambs | animals are housed for fattening | 0.0067 |

# Economic values of meat coproducts

### Table 9: Economic value of coproducts for bovines in €/ton

|  |  |  |  |
| --- | --- | --- | --- |
| Co-produits | Destination | Group of tissues | economic value for beefs (€/ton) |
| Abomasum | Human food | GIT | 2470 |
| Abomasum fat | Fat and greaves C3 | GIT | 300 |
| Aponeurosis | Human food | Carcass | 3310 |
| Bile | PAP C3 | Others | 283 |
| Blood | PAP C3 | Others | 736 |
| Blood | Pet food | Others | 242 |
| Bones | Gelatin C3 | Carcass | 10 |
| Bones of head, brain, eyes and teeth | C1-C2 for disposal | Others | 0 |
| Cheek  | Human food | Others | 7250 |
| Cheek  | Human food | Others | 7250 |
| Cheek trimmings | Pet food | Others | 242 |
| Chops | Pet food | Others | 242 |
| Contents of intestines | Spreading/Compost | GIT | 0 |
| Contents of the rumen | Spreading/Compost | GIT | 0 |
| Ears | PAP C3 | Others | 283 |
| Esophagus | Pet food | Others | 242 |
| Fat | Fat and greaves C3 | Carcass | 300 |
| Fat around heart | Fat and greaves C3 | Others | 300 |
| Fat in the kidney | Fat and greaves C3 | Others | 300 |
| Feet (without hooves) | Gelatin C3 | Others | 10 |
| Floatation fat | Spreading/Compost | Others | 0 |
| Forehead | C1-C2 for disposal | Others | 0 |
| Forelock | PAP C3 | Others | 283 |
| Gallbladder | Pet food | Others | 242 |
| Head trimmings | Pet food | Others | 242 |
| Heart | Human food | Others | 700 |
| Heart trimmings | Pet food | Others | 242 |
| Hide | Skin tannery C3 | Others | 5500 |
| Hooves | PAP C3 | Others | 283 |
| Horns | PAP C3 | Others | 283 |
| Kidney | Human food | Others | 1340 |
| Large intestine | C1-C2 for disposal | GIT | 0 |
| Liver | Human food | Liver | 1600 |
| Liver trimmings | Pet food | Liver | 242 |
| Lower jaw | PAP C3 | Others | 283 |
| Lungs | Pet food | Others | 242 |
| Mask | Skin tannery C3 | Others | 5500 |
| Mesenteric fat | C1-C2 for disposal | GIT | 0 |
| Muscle | Human food | Carcass | 5510 |
| Muzzle | Human food | Others | 3310 |
| Omasum | Human food | GIT | 2470 |
| Omasum fat | Fat and greaves C3 | GIT | 300 |
| Rumen and forestomach | Human food | GIT | 2470 |
| Rumen fat | Fat and greaves C3 | GIT | 300 |
| Sanitary seizures | C1-C2 for disposal | Others | 0 |
| Screening and sifting wastes | C1-C2 for disposal | Others | 0 |
| Small intestine | PAP C3 | GIT | 200 |
| Spinal cord | C1-C2 for disposal | Others | 0 |
| Spinal cord waste | C1-C2 for disposal | Others | 0 |
| Spine | C1-C2 for disposal | Carcass | 0 |
| Spleen | Pet food | Others | 242 |
| Stillborn | PAP C3 | GIT | 0 |
| Tallow | Fat and greaves C3 | Others | 300 |
| Tongue | Human food | Others | 5250 |
| Tonsil | C1-C2 for disposal | Others | 0 |
| Trachea | Pet food | Others | 242 |
| Udder | Pet food | Others | 242 |
| Upper throat | Pet food | Others | 242 |
| Water in the rumen | Spreading/Compost | GIT | 0 |

### Table 10: Economic value of coproducts for calves in €/ton

|  |  |  |  |
| --- | --- | --- | --- |
| Co-produits | Destination | Group of tissues | economic value for Calves (€/ton) |
| Dead individuals | Human food | GIT | 200 |
| Manure | Fat and greaves C3 | GIT | 3310 |
| Screening and sifting wastes | Human food | Carcass | 283 |
| Floatation fat | PAP C3 | Others | 0 |
| Sludge | PAP C3 | Others | 10 |
| Blood | Pet food | Others | 0 |
| Skin | Gelatin C3 | Carcass | 300 |
| Bile | C1-C2 for disposal | Others | 300 |
| Spleen | Human food | Others | 10 |
| Intestines | Human food | Others | 0 |
| Fat from breasts and penis | Pet food | Others | 7500 |
| Rumen and forestomach | Pet food | Others | 0 |
| Abomasum | Spreading/Compost | GIT | 3480 |
| Sweetbread | Spreading/Compost | GIT | 0 |
| Kidney | PAP C3 | Others | 6840 |
| Pluck | Pet food | Others | 1400 |
| Feet (without hooves) | Fat and greaves C3 | Carcass | 200 |
| Head | Fat and greaves C3 | Others | 283 |
| SPA C3 | Fat and greaves C3 | Others | 0 |
| Meat | Spreading/Compost | Others | 4000 |
| Fat (8%) | C1-C2 for disposal | Others | 0 |
| Aponevrosis (1%) | PAP C3 | Others | 241.5 |
| Bones (11%) | Pet food | Others | 5240 |

### Table 11: Economic value of coproducts for lambs in €/ton

|  |  |  |  |
| --- | --- | --- | --- |
| Co-produits | Destination | Group of tissues | economic value for lambs (€/ton) |
| Blood | PAP C3 | Others | 0 |
| Blood | Spreading/Compost | Others | 0 |
| Bones | PAP C3 | Carcass | 0 |
| Brain | Human food | Others | 0 |
| Contents of the intestines | Spreading/Compost | Others | 0 |
| Dead individuals | C1-C2 for disposal | Others | 0 |
| Downgraded skin | PAP C3 | Others | 0 |
| Fat | PAP C3 | Carcass | 0 |
| Floatation fat | C1-C2 for disposal | Others | 0 |
| Meat | Human food | Carcass | 5300 |
| Other spa c1 | C1-C2 for disposal | Others | 0 |
| Other spa c3 | PAP C3 | Others | 0 |
| Pluck (liver, heart, trachea) | Human food | Liver | 3100 |
| Pluck (liver, heart, trachea) | Pet food | Liver | 3080 |
| Rumen and reticulum | Human food | GIT | 0 |
| Rumen and reticulum | Pet food | GIT | 0 |
| Sanitary seizures | C1-C2 for disposal | Others | 0 |
| Screening waste | C1-C2 for disposal | Others | 0 |
| Sifting waste | C1-C2 for disposal | Others | 0 |
| Skin | Skin tannery C3 | Others | 700 |
| Small intestine | C1-C2 for disposal | GIT | 0 |
| Small intestine | Human food | GIT | 0 |
| Small intestine | PAP C3 | GIT | 0 |
| Stercoral matter | Spreading/Compost | Others | 0 |
| Thymus | Human food | Others | 10200 |
| Thymus | Pet food | Others | 10200 |
| Tongue | Human food | Others | 4500 |