## Aluminium (Al)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.2 | 87.6 | 60.5 | 86.9 | 91.7 | 60.5 | 50 | 75.4 | 1.7 | 90.7 | 89.8 | 80.9 | 95.1 | 90 | 93.3 | 86.7 |
| 0.2 to less than 0.5 | 11.5 | 32.9 | 8.2 | 5 | 30.2 | 35.5 | 19.7 | 11.7 | 6.7 | 7.8 | 13.8 | 1.6 | 6.7 | 6.7 | 11.3 |
| 0.5 to less than 0.75 | 0.7 | 3.9 | 1.6 | 1.7 | 6.6 | 7.2 | – | 25 | 2.7 | 1.7 | 1.3 | – | 3.3 | – | 1.3 |
| 0.75 to less than 1 | 0.2 | 2 | 1.6 | – | 0.5 | 3.3 | 3.3 | 8.3 | – | 0.2 | 1.3 | 1.6 | – | – | 0.7 |
| 1 to less than 1.5 | – | 0.7 | 1.6 | 1.7 | 1.2 | 2 | – | 23.3 | – | – | 1.3 | 1.6 | – | – | – |
| 1.5 to less than 2 | – | – | – | – | 0.2 | 1.3 | – | 13.3 | – | 0.5 | – | – | – | – | – |
| 2 to less than 2.5 | – | – | – | – | 0.2 | – | – | 5 | – | – | – | – | – | – | – |
| 2.5 to less than 3 | – | – | – | – | 0.2 | – | 1.6 | 6.7 | – | – | – | – | – | – | – |
| 3 to less than 5 | – | – | – | – | 0.2 | – | – | 1.7 | – | – | 1.3 | – | – | – | – |
| 5 to less than 7 | – | – | – | – | – | 0.7 | – | 3.3 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Aluminium has atomic number 13, atomic mass 26.98, limit of reporting 0.2 mg/kg, limit of detection 0.0893 mg/kg, Australian standard—no limit.

## Antimony (Sb)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | 57.1 | 59.9 | 47.5 | 46.7 | 46.8 | 51.3 | 42.6 | 25 | 34.7 | 57.1 | 60.5 | 50.8 | 43.3 | 32 | 62.7 |
| Greater than 0 to 0.01 | 42.9 | 40.1 | 52.5 | 53.3 | 52.7 | 48.7 | 57.4 | 68.3 | 65.3 | 42.9 | 39.5 | 49.2 | 56.7 | 68 | 37.3 |
| Greater than 0.01 to 0.015 | – | – | – | – | 0.2 | – | – | 6.7 | – | – | – | – | – | – | – |
| Greater than 0.015 to 0.02 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.02 to 0.025 | – | – | – | – | 0.2 | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.025 to 0.05 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.05 to 0.1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Antimony has atomic number 51, atomic mass 121.75, limit of reporting 0.05 mg/kg, limit of detection 0.0062 mg/kg, Australian standard—no limit.

## Arsenic (As)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | 6.6 | 16.4 | 14.8 | 11.7 | 11.7 | 17.1 | 27.9 | 11.7 | 10.7 | 15.9 | 31.6 | 37.7 | 16.7 | 14.7 | 15.3 |
| Greater than 0 to 0.01 | 58.3 | 77.6 | 65.6 | 68.3 | 75.1 | 77.6 | 67.2 | 75 | 44 | 78.8 | 67.1 | 60.7 | 71.7 | 76 | 76.7 |
| Greater than 0.01 to 0.02 | 16.3 | 1.3 | 6.6 | 11.7 | 9 | 3.3 | 1.6 | 3.3 | 8 | 5.1 | 1.3 | 1.6 | 11.7 | 8 | 8 |
| Greater than 0.02 to 0.03 | 6.3 | – | 4.9 | – | 3.4 | 2 | 3.3 | 1.7 | 6.7 | 0.2 | – | – | – | 1.3 | – |
| Greater than 0.03 to 0.04 | 5.1 | 2.6 | 3.3 | – | 0.7 | – | – | 1.7 | 1.3 | – | – | – | – | – | – |
| Greater than 0.04 to 0.05 | 2.9 | 1.3 | 1.6 | – | – | – | – | – | 4 | – | – | – | – | – | – |
| Greater than 0.05 to 0.075 | 3.9 | 0.7 | 3.3 | 3.3 | – | – | – | 3.3 | 8 | – | – | – | – | – | – |
| Greater than 0.075 to 0.1 | – | – | – | 5 | – | – | – | 1.7 | 4 | – | – | – | – | – | – |
| Greater than 0.1 to 0.25 | 0.5 | – | – | – | – | – | – | 1.7 | 10.7 | – | – | – | – | – | – |
| Greater than 0.25 to 0.5 | – | – | – | – | – | – | – | – | 1.3 | – | – | – | – | – | – |
| Greater than 0.5 to 1 | – | – | – | – | – | – | – | – | 1.3 | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Arsenic has atomic number 33, atomic mass 74.92, limit of reporting 0.02 mg/kg, limit of detection 0.0047 mg/kg, Australian standard—no limit.

## Barium (Ba)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | – | – | 83.6 | – | 22.9 | 4.6 | 96.7 | 33.3 | 30.7 | 39.3 | 30.3 | 96.7 | 78.3 | 84 | – |
| 0.01 to less than 0.1 | 10.2 | 6.6 | 13.1 | 3.3 | 74.1 | 81.6 | 3.3 | 53.3 | 66.7 | 56.6 | 64.5 | 1.6 | 21.7 | 16 | – |
| 0.1 to less than 0.2 | 26.3 | 21.7 | 1.6 | 33.3 | 2 | 8.6 | – | 11.7 | – | 3.2 | 3.3 | 1.6 | – | – | 3.3 |
| 0.2 to less than 0.3 | 28 | 18.4 | 1.6 | 13.3 | 0.2 | 2 | – | – | 1.3 | 0.7 | 1.3 | – | – | – | 10.7 |
| 0.3 to less than 0.4 | 14.6 | 14.5 | – | 11.7 | 0.2 | 0.7 | – | 1.7 | – | – | – | – | – | – | 23.3 |
| 0.4 to less than 0.5 | 8 | 9.9 | – | 8.3 | – | – | – | – | – | 0.2 | – | – | – | – | 28 |
| 0.5 to less than 1 | 12 | 25.7 | – | 23.3 | 0.2 | 2 | – | – | – | – | 0.7 | – | – | – | 34.7 |
| 1 to less than 2 | 0.7 | 1.3 | – | 6.7 | 0.2 | 0.7 | – | – | 1.3 | – | – | – | – | – | – |
| 2 to less than 3 | – | 1.3 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3 to less than 5 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Barium has atomic number 56, atomic mass 137.34, limit of reporting 0.01 mg/kg, limit of detection 0.0076 mg/kg, Australian standard—no limit.

## Boron (B)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.2 | 95.4 | 94.1 | 95.1 | 93.3 | 95.1 | 95.4 | 78.7 | 48.3 | 100 | 99 | 97.4 | 98.4 | 100 | 100 | 99.3 |
| 0.2 to less than 0.25 | 2.4 | 2 | 1.6 | 3.3 | 2.2 | 2 | 4.9 | 6.7 | – | – | 2 | – | – | – | 0.7 |
| 0.25 to less than 0.3 | 0.7 | 1.3 | 1.6 | – | 1.2 | 2 | – | 5 | – | 0.7 | – | 1.6 | – | – | – |
| 0.3 to less than 0.4 | 0.7 | 0.7 | 1.6 | 3.3 | 0.2 | – | 6.6 | 20 | – | 0.2 | 0.7 | – | – | – | – |
| 0.4 to less than 0.5 | 0.7 | – | – | – | 0.7 | – | 4.9 | 5 | – | – | – | – | – | – | – |
| 0.5 to less than 0.6 | – | 0.7 | – | – | 0.2 | 0.7 | 4.9 | 6.7 | – | – | – | – | – | – | – |
| 0.6 to less than 0.7 | – | 0.7 | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.7 to less than 0.8 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.8 to less than 1 | – | – | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 1 to less than 2.3 | – | – | – | – | 0.2 | – | – | 5 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Boron has atomic number 5, atomic mass 10.81, limit of reporting 0.2 mg/kg, limit of detection 0.1191 mg/kg, Australian standard—no limit.

## Cadmium (Cd)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | – | – | – | – | – | – | – | – | – | 0.2 | – | – | – | – | 3.3 |
| Greater than 0 to 0.005 | – | 0.7 | – | – | 1.2 | – | 4.9 | – | 29.3 | 96.8 | 90.8 | 100 | 3.3 | 100 | 96.7 |
| Greater than 0.005 to 0.01 | – | – | 1.6 | – | 6.6 | 2 | 18 | – | 46.7 | 2.2 | 5.3 | – | 10 | – | – |
| Greater than 0.01 to 0.05 | 18.3 | 19.1 | 18 | – | 58.8 | 30.9 | 62.3 | – | 24 | 0.7 | 3.9 | – | 63.3 | – | – |
| Greater than 0.05 to 0.1 | 19.3 | 9.9 | 27.9 | – | 18 | 23 | 9.8 | – | – | – | – | – | 16.7 | – | – |
| Greater than 0.1 to 0.5 | 45.4 | 34.2 | 45.9 | – | 14.6 | 27 | 4.9 | 10 | – | – | – | – | 6.7 | – | – |
| Greater than 0.5 to 1.25 | 11 | 16.4 | 6.6 | – | 0.7 | 11.8 | – | 30 | – | – | – | – | – | – | – |
| Greater than 1.25 to 2.5 | 4.6 | 6.6 | – | 1.7 | – | 4.6 | – | 35 | – | – | – | – | – | – | – |
| Greater than 2.5 to 10 | 1.2 | 12.5 | – | 35 | – | 0.7 | – | 23.3 | – | – | – | – | – | – | – |
| Greater than 10 to 25 | 0.2 | 0.7 | – | 51.7 | – | – | – | 1.7 | – | – | – | – | – | – | – |
| Greater than 25 to 63 | – | – | – | 11.7 | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Cadmium has atomic number 48, atomic mass 112.40, limit of reporting 0.005 mg/kg, limit of detection 0.0029 mg/kg, Australian standards for kidney of cattle, sheep and pig— 2.5 mg/kg, Australian standard for liver of cattle, sheep and pig— 1.25 mg/kg, Meat of cattle, sheep and pig (excluding offal)— 0.05 mg/kg.

## Caesium (Cs)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 78 | 80.9 | 72.1 | 88.3 | 85.1 | 88.8 | 88.5 | 93.3 | 96 | 80 | 80.3 | 63.9 | 86.7 | 93.3 | 96 |
| 0.05 to less than 0.075 | 9 | 5.9 | 14.8 | 6.7 | 7.6 | 3.9 | 3.3 | 6.7 | – | 8.8 | 7.9 | 23 | 5 | 1.3 | 4 |
| 0.075 to less than 0.1 | 5.4 | 5.3 | 8.2 | 5 | 2.7 | 3.9 | 4.9 | – | – | 4.6 | 2 | 6.6 | 5 | 1.3 | – |
| 0.1 to less than 0.2 | 5.1 | 6.6 | 3.3 | – | 3.9 | 2.6 | 1.6 | – | 1.3 | 4.4 | 5.9 | 4.9 | 3.3 | – | – |
| 0.2 to less than 0.3 | 1.5 | 0.7 | – | – | 0.7 | – | – | – | – | 1.7 | 0.7 | – | – | 1.3 | – |
| 0.3 to less than 0.4 | 0.7 | – | – | – | – | 0.7 | 1.6 | – | 2.7 | 0.2 | 2 | – | – | 1.3 | – |
| 0.4 to less than 0.5 | 0.2 | – | 1.6 | – | – | – | – | – | – | – | – | 1.6 | – | 1.3 | – |
| 0.5 to less than 0.75 | – | – | – | – | – | – | – | – | – | 0.2 | 1.3 | – | – | – | – |
| 0.75 to less than 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1 to less than 1.2 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | 410 | 152 | 61 | 60 | 410 | 152 | 61 | 60 | 75 | 410 | 152 | 61 | 60 | 75 | 150 |

**Note**: Caesium has atomic number 55, atomic mass 132.91, limit of reporting 0.05 mg/kg, limit of detection 0.0438 mg/kg, Australian standards—no limit.

## Calcium (Ca)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 25 | – | – | – | – | 5.1 | 0.7 | – | – | – | 13.9 | 9.2 | 9.8 | 13.3 | – | – |
| 25 to less than 50 | 7.1 | 7.9 | 18 | – | 90 | 78.3 | 72.1 | 75 | 93.3 | 63.4 | 87.5 | 86.9 | 53.3 | 98.7 | – |
| 50 to less than 75 | 57.1 | 36.8 | 77 | 5 | 2.2 | 15.1 | 27.9 | 18.3 | 5.3 | 14.1 | 2 | 1.6 | 13.3 | – | – |
| 75 to less than 100 | 24.4 | 25.7 | 4.9 | 41.7 | 0.7 | 1.3 | – | – | – | 2.2 | – | 1.6 | 8.3 | – | – |
| 100 to less than 125 | 7.1 | 13.8 | – | 28.3 | 0.5 | – | – | 1.7 | – | 3.4 | 0.7 | – | 5 | – | – |
| 125 to less than 250 | 4.1 | 14.5 | – | 18.3 | 1 | 3.3 | – | 1.7 | – | 2.9 | – | – | 5 | 1.3 | – |
| 250 to less than 500 | 0.2 | 0.7 | – | 5 | – | – | – | 1.7 | 1.3 | – | 0.7 | – | 1.7 | – | 97.3 |
| 500 to less than 750 | – | 0.7 | – | 1.7 | 0.2 | 1.3 | – | 1.7 | – | – | – | – | – | – | 2.7 |
| 750 to less than 1000 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1000 to less than 2500 | – | – | – | – | 0.2 | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | 410 | 152 | 61 | 60 | 410 | 152 | 61 | 60 | 75 | 410 | 152 | 61 | 60 | 75 | 150 |

**Note**: Calcium has atomic number 20, atomic mass 40.08, limit of reporting 1 mg/kg, limit of detection 0.5872 mg/kg, Australian standards—no limit.

## Cerium (Ce)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.005 | 77.1 | 65.8 | 96.7 | 31.7 | 23.2 | 15.1 | 82 | – | 98.7 | 99.5 | 96.7 | 93.4 | 100 | 98.7 | 100 |
| 0.005 to less than 0.01 | 15.9 | 14.5 | 1.6 | 25 | 28.5 | 22.4 | 11.5 | – | – | 0.5 | 2.6 | 4.9 | – | – | – |
| 0.01 to less than 0.02 | 5.9 | 13.2 | – | 30 | 28.3 | 19.7 | 1.6 | – | – | – |  | 1.6 | – | 1.3 | – |
| 0.02 to less than 0.04 | 1.2 | 4.6 | 1.6 | 13.3 | 14.6 | 22.4 | 1.6 | 1.7 | 1.3 | – | 0.7 | – | – | – | – |
| 0.04 to less than 0.05 | – | 1.3 | – | – | 1.2 | 5.3 | 1.6 | – | – | – | – | – | – | – | – |
| 0.05 to less than 0.075 | – | – | – | – | 2.4 | 5.3 | – | 3.3 | – | – | – | – | – | – | – |
| 0.075 to less than 0.5 | – | 0.7 | – | – | 1.7 | 9.2 | 1.6 | 48.3 | – | – | – | – | – | – | – |
| 0.5 to less than 1 | – | – | – | – | – | 0.7 | – | 30 | – | – | – | – | – | – | – |
| 1 to less than 2 | – | – | – | – | – | – | – | 10 | – | – | – | – | – | – | – |
| 2 to less than 3.6 | – | – | – | – | – | – | – | 6.7 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Cerium has atomic number 58, atomic mass 104.12, limit of reporting 0.005 mg/kg, limit of detection 0.0023 mg/kg, Australian standards—no limit.

## Chromium (Cr)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 88.8 | 85.5 | 93.4 | 98.3 | 70.7 | 54.6 | 62.3 | 43.3 | 41.3 | 90.5 | 86.8 | 93.4 | 98.3 | 57.3 | 100 |
| 0.05 to less than 0.06 | 5.6 | 6.6 | 4.9 | 1.7 | 17.3 | 27.6 | 24.6 | 28.3 | 21.3 | 5.6 | 7.9 | 3.3 | – | 20 | – |
| 0.06 to less than 0.07 | 2.2 | 4.6 | 1.6 | – | 4.9 | 5.3 | 13.1 | 11.7 | 16 | 2.4 | 3.3 | 3.3 | – | 14.7 | – |
| 0.07 to less than 0.08 | 2 | 2.6 | – | – | 4.1 | 5.9 | – | 5 | 8 | 0.2 | – | – | – | 2.7 | – |
| 0.08 to less than 0.09 | 1 | 0.7 | – | – | 2.4 | 2.6 | – | 3.3 | 8 | 0.2 | – | – | – | 2.7 | – |
| 0.09 to less than 0.1 | 0.2 | – | – | – | 0.2 | 2 | – | 5 | 4 | 0.2 | – | – | 1.7 | 1.3 | – |
| 0.1 to less than 0.125 | – | – | – | – | 0.2 | – | – | 3.3 | 1.3 | 0.2 | 2 | – | – | 1.3 | – |
| 0.125 to less than 0.15 | – | – | – | – | – | 0.7 | – | – | – | 0.2 | – | – | – | – | – |
| 0.15 to less than 0.2 | – | – | – | – | – | 0.7 | – | – | – | 0.2 | – | – | – | – | – |
| 0.2 to less than 0.6 | 0.2 | – | – | – | – | 0.7 | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | 410 | 152 | 61 | 60 | 410 | 152 | 61 | 60 | 75 | 410 | 152 | 61 | 60 | 75 | 150 |

**Note**: Chromium has atomic number 24, atomic mass 51.99, limit of reporting 0.05 mg/kg, limit of detection 0.0259 mg/kg, Australian standards—no limit.

## Cobalt (Co)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | 1.5 | – | 1.6 | – | – | 0.7 | 1.6 | – | – | 97.1 | 96.7 | 100 | 96.7 | 100 | 100 |
| 0.01 to less than 0.02 | 14.9 | 5.3 | 32.8 | 28.3 | 0.2 | 1.3 | 23 | – | 37.3 | 2.2 | 3.3 | – | 3.3 | – | – |
| 0.02 to less than 0.03 | 45.9 | 19.7 | 36.1 | 40 | 0.2 | 4.6 | 49.2 | 1.7 | 58.7 | 0.2 | – | – | – | – | – |
| 0.03 to less than 0.04 | 19.8 | 28.3 | 11.5 | 10 | 3.9 | 6.6 | 19.7 | 1.7 | 4 | – | – | – | – | – | – |
| 0.04 to less than 0.05 | 9.3 | 20.4 | 6.6 | 10 | 12 | 21.7 | 6.6 | 18.3 | – | – | – | – | – | – | – |
| 0.05 to less than 0.1 | 6.1 | 23 | 11.5 | 11.7 | 70.7 | 62.5 | – | 51.7 | – | 0.5 | – | – | – | – | – |
| 0.1 to less than 0.15 | 1.7 | 3.3 | – | – | 9.3 | 1.3 | – | 8.3 | – | – | – | – | – | – | – |
| 0.15 to less than 0.2 | 0.2 | – | – | – | 1.5 | 0.7 | – | 10 | – | – | – | – | – | – | – |
| 0.2 to less than 0.25 | 0.5 | – | – | – | 0.5 | 0.7 | – | 5 | – | – | – | – | – | – | – |
| 0.25 to less than 0.84 | 0.2 | – | – | – | 1.7 | – | – | 3.3 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Cobalt has atomic number 27, atomic mass 58.93, limit of reporting 0.01 mg/kg, limit of detection 0.004 mg/kg, Australian standards—no limit.

## Copper (Cu)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0 to 0.05 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.05 to 0.1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.1 to 0.5 | – | – | – | – | – | – | – | – | – | 31.7 | 5.9 | 32.8 | – | 98.7 | 59.3 |
| Greater than 0.5 to 2 | 1 | 8.6 | 3.3 | – | 3.2 | – | – | – | 4 | 68 | 94.1 | 67.2 | 95 | 1.3 | 40.7 |
| Greater than 2 to 10 | 99 | 91.4 | 82 | 100 | 18.3 | 7.2 | 37.7 | 95 | 96 | 0.2 | – | – | 5 | – | – |
| Greater than 10 to 25 | – | – | 14.8 | – | 36.1 | 12.5 | 31.1 | 5 | – | – | – | – | – | – | – |
| Greater than 25 to 50 | – | – | – | – | 25.9 | 26.3 | 11.5 | – | – | – | – | – | – | – | – |
| Greater than 50 to 100 | – | – | – | – | 13.4 | 37.5 | 14.8 | – | – | – | – | – | – | – | – |
| Greater than 100 to 150 | – | – | – | – | 2.9 | 9.9 | 3.3 | – | – | – | – | – | – | – | – |
| Greater than 150 to 375 | – | – | – | – | 0.2 | 6.6 | 1.6 | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Copper has atomic number 29, atomic mass 63.55, limit of reporting 0.05 mg/kg, limit of detection 0.0109 mg/kg, Australian standards for edible mammalian offal (other than sheep liver)—50 mg/kg, Australian standards for meat of cattle, pigs and sheep—2 mg/kg, Australian standards for sheep liver—150 mg/kg

## Gallium (Ga)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.005 | 43.9 | 35.5 | 98.4 | 23.3 | 95.9 | 87.5 | 96.7 | 45 | 97.3 | 97.8 | 96.1 | 100 | 100 | 100 | 40 |
| 0.005 to less than 0.006 | 11.7 | 14.5 | – | 8.3 | 2.2 | 4.6 | 1.6 | 26.7 | 1.3 | 1.7 | 2.6 | – | – | – | 3.3 |
| 0.006 to less than 0.007 | 7.1 | 8.6 | – | 11.7 | 0.7 | 3.3 | 1.6 | 8.3 | – | 0.2 | 0.7 | – | – | – | 3.3 |
| 0.007 to less than 0.008 | 5.9 | 7.2 | 1.6 | 5 | 0.2 | – | – | 8.3 | – | – | – | – | – | – | 8 |
| 0.008 to less than 0.009 | 6.6 | 5.3 | – | 1.7 | 0.2 | 0.7 | – | 1.7 | – | – | – | – | – | – | 7.3 |
| 0.009 to less than 0.01 | 7.3 | 5.3 | – | 1.7 | – | 0.7 | – | 1.7 | – | – | – | – | – | – | 6 |
| 0.01 to less than 0.0125 | 6.6 | 9.2 | – | 18.3 | – | 2 | – | 5 | – | – | – | – | – | – | 21.3 |
| 0.0125 to less than 0.015 | 6.3 | 2 | – | 10 | – | – | – | 1.7 | – | 0.2 | – | – | – | – | 6.7 |
| 0.015 to less than 0.02 | 2.7 | 5.3 | – | 8.3 | 0.5 | 0.7 | – | 1.7 | – | – | 0.7 | – | – | – | 4 |
| 0.02 to less than 0.1 | 2 | 7.2 | – | 11.7 | 0.2 | 0.7 | – | – | 1.3 | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Gallium has atomic number 31, atomic mass 69.72, limit of reporting 0.005 mg/kg, limit of detection 0.0028 mg/kg, Australian standards—no limit.

## Germanium (Ge)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.005 | 23.9 | 29.6 | 14.8 | – | 23.9 | 29.6 | 13.1 | 3.3 | 100 | 28.3 | 32.2 | 24.6 | – | 100 | 0.7 |
| 0.005 to less than 0.0075 | 0.2 | 5.3 | – | 1.7 | 0.7 | 0.7 | – | 1.7 | – | 11.7 | 16.4 | 39.3 | 1.7 | – | 26.7 |
| 0.0075 to less than 0.01 | 2.9 | 4.6 | 6.6 | 1.7 | 3.4 | 2.6 | – | – | – | 19.3 | 15.8 | 23 | 10 | – | 28.7 |
| 0.01 to less than 0.025 | 40 | 35.5 | 67.2 | 56.7 | 40 | 22.4 | 3.3 | 1.7 | – | 40.5 | 35.5 | 13.1 | 68.3 | – | 44 |
| 0.025 to less than 0.05 | 29.3 | 15.1 | 11.5 | 38.3 | 27.3 | 27.6 | 36.1 | 10 | – | 0.2 | – | – | 20 | – | – |
| 0.05 to less than 0.075 | 3.4 | 3.3 | – | – | 3.2 | 7.9 | 21.3 | 18.3 | – | – | – | – | – | – | – |
| 0.075 to less than 0.1 | – | 2.6 | – | – | 1 | 5.9 | 11.5 | 15 | – | – | – | – | – | – | – |
| 0.1 to less than 0.15 | 0.2 | 2 | – | – | 0.5 | 2.6 | 13.1 | 28.3 | – | – | – | – | – | – | – |
| 0.15 to less than 0.2 | – | 1.3 | – | 1.7 | – | 0.7 | – | 11.7 | – | – | – | – | – | – | – |
| 0.2 to less than 0.6 | – | 0.7 | – | – | – | – | 1.6 | 10 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Germanium has atomic number 32, atomic mass 72.63, limit of reporting 0.005 mg/kg, limit of detection 0.00345 mg/kg, Australian standards—no limit.

## Iron (Fe)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 25 | – | 9.9 | 8.2 | – | 0.7 | – | – | – | – | 77.3 | 96.7 | 100 | 21.7 | 100 | 100 |
| 25 to less than 50 | 23.4 | 47.4 | 65.6 | 51.7 | 35.6 | 20.4 | 1.6 | – | 20 | 22.4 | 3.3 | – | 65 | – | – |
| 50 to less than 75 | 45.6 | 14.5 | 18 | 43.3 | 38 | 24.3 | 3.3 | 3.3 | 34.7 | 0.2 | – | – | 13.3 | – | – |
| 75 to less than 100 | 22.7 | 5.9 | 4.9 | – | 13.9 | 15.1 | 3.3 | – | 29.3 | – | – | – | – | – | – |
| 100 to less than 250 | 8 | 16.4 | 1.6 | 5 | 10.7 | 32.9 | 68.9 | 38.3 | 16 | – | – | – | – | – | – |
| 250 to less than 500 | 0.2 | 2.6 | 1.6 | – | 1 | 6.6 | 18 | 33.3 | – | – | – | – | – | – | – |
| 500 to less than 750 | – | 2.6 | – | – | – | – | 4.9 | 13.3 | – | – | – | – | – | – | – |
| 750 to less than 1000 | – | 0.7 | – | – | – | 0.7 | – | 3.3 | – | – | – | – | – | – | – |
| 1000 to less than 1500 | – | – | – | – | – | – | – | 5 | – | – | – | – | – | – | – |
| 1500 to less than 3000 | – | – | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Iron has atomic number 26, atomic mass 55.85, limit of reporting 1 mg/kg, limit of detection 0.1037 mg/kg, Australian standards—no limit.

## Lead (Pb)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | 1.5 | 1.3 | 14.8 | – | 4.4 | 2 | 14.8 | – | 2.7 | 24.1 | 13.8 | 42.6 | 28.3 | 9.3 | 52 |
| Greater than 0 to 0.01 | 27.3 | 11.8 | 68.9 | 11.7 | 60 | 26.3 | 73.8 | – | 94.7 | 74.9 | 84.2 | 57.4 | 70 | 88 | 44 |
| Greater than 0.01 to 0.1 | 69.5 | 73.7 | 16.4 | 78.3 | 35.1 | 60.5 | 11.5 | 65 | 1.3 | 1 | 1.3 | – | 1.7 | 2.7 | 4 |
| Greater than 0.1 to 0.25 | 1.2 | 9.9 | – | 6.7 | – | 9.2 | – | 30 | 1.3 | – | 0.7 | – | – | – | – |
| Greater than 0.25 to 0.5 | 0.2 | 2 | – | 1.7 | 0.2 | 2 | – | 1.7 | – | – | – | – | – | – | – |
| Greater than 0.5 to 0.6 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.6 to 0.7 | – | – | – | 1.7 | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.7 to 0.8 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.8 to 0.9 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.9 to 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 1 to 11 | 0.2 | – | – | – | 0.2 | – | – | 3.3 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Lead has atomic number 82, atomic mass 207.19, limit of reporting 0.01 mg/kg, limit of detection 0.0079 mg/kg, Australian standards for edible offal of cattle, sheep, pig and poultry—0.5 mg/kg, Australian standards for meat of cattle, sheep, pig and poultry (excluding offal)—0.1 mg/kg.

## Lithium (Li)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 80.7 | 79.6 | 96.7 | 76.7 | 95.1 | 96.1 | 98.4 | 100 | 100 | 97.1 | 94.7 | 100 | 100 | 100 | 58 |
| 0.05 to less than 0.055 | 5.6 | 5.3 | 1.6 | 13.3 | 1.7 | – | – | – | – | 1.5 | 1.3 | – | – | – | 12.7 |
| 0.055 to less than 0.06 | 5.9 | 3.9 | – | 3.3 | 1.5 | 2 | – | – | – | 0.7 | 3.9 | – | – | – | 11.3 |
| 0.06 to less than 0.065 | 2 | 3.9 | 1.6 | 3.3 | 0.5 | 0.7 | – | – | – | 0.2 | – | – | – | – | 6.7 |
| 0.065 to less than 0.07 | 1.5 | 2.6 | – | 3.3 | 0.5 | 1.3 | – | – | – | 0.2 | – | – | – | – | 2.7 |
| 0.07 to less than 0.075 | 1.5 | 0.7 | – | – | 0.5 | – | – | – | – | 0.2 | – | – | – | – | 3.3 |
| 0.075 to less than 0.08 | 1 | 0.7 | – | – | 0.2 | – | – | – | – | – | – | – | – | – | 0.7 |
| 0.08 to less than 0.09 | 0.7 | 0.7 | – | – | – | – | 1.6 | – | – | – | – | – | – | – | 3.3 |
| 0.09 to less than 0.1 | 0.2 | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | 0.7 |
| 0.1 to less than 0.3 | 1 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | 0.7 |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Lithium has atomic number 3, atomic mass 6.941, limit of reporting 0.05 mg/kg, limit of detection 0.0041 mg/kg, Australian standards—no limit.

## Magnesium (Mg)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 75 | – | – | – | – | – | – | – | – | – | – | 0.7 | – | – | – | 13.3 |
| 75 to less than 100 | 3.9 | 2.6 | 1.6 | 10 | – | 0.7 | – | – | – | 0.2 | 0.7 | – | – | – | 30 |
| 100 to less than 125 | 27.3 | 29.6 | 27.9 | 48.3 | 16.1 | 10.5 | 11.5 | 13.3 | 1.3 | 4.9 | 5.3 | 3.3 | 3.3 | – | 55.3 |
| 125 to less than 150 | 44.6 | 42.8 | 44.3 | 41.7 | 30.2 | 27.6 | 21.3 | 31.7 | 1.3 | 20.5 | 25 | 9.8 | 15 | – | 1.3 |
| 150 to less than 175 | 22.9 | 24.3 | 23 | – | 40.2 | 45.4 | 41 | 31.7 | 14.7 | 35.1 | 22.4 | 24.6 | 26.7 | – | – |
| 175 to less than 200 | 1.2 | 0.7 | 3.3 | – | 12 | 15.8 | 21.3 | 23.3 | 70.7 | 29 | 30.3 | 32.8 | 26.7 | – | – |
| 200 to less than 225 | – | – | – | – | 1.2 | – | 4.9 | – | 12 | 8.8 | 9.2 | 26.2 | 23.3 | – | – |
| 225 to less than 250 | – | – | – | – | 0.2 | – | – | – | – | 1.5 | 6.6 | 3.3 | 5 | 6.7 | – |
| 250 to less than 300 | – | – | – | – | – | – | – | – | – | – | – | – | – | 54.7 | – |
| 300 to less than 400 | – | – | – | – | – | – | – | – | – | – | – | – | – | 38.7 | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Magnesium has atomic number 12, atomic mass 24.305, limit of reporting 1 mg/kg, limit of detection 0.2719 mg/kg, Australian standards—no limit.

## Manganese (Mn)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.1 | 0.2 | – | – | – | – | – | – | – | – | 82.7 | 78.3 | 93.4 | 45 | 85.3 | – |
| 0.1 to less than 0.25 | – | – | – | – | – | – | – | – | – | 17.1 | 21.7 | 6.6 | 50 | 13.3 | 57.3 |
| 0.25 to less than 0.5 | 0.2 | 2.6 | – | – | – | – | – | – | – | 0.2 | – | – | 5 | 1.3 | 42.7 |
| 0.5 to less than 0.75 | 18.8 | 43.4 | 4.9 | 53.3 | – | – | – | – | – | – | – | – | – | – | – |
| 0.75 to less than 1 | 51.7 | 40.8 | 32.8 | 38.3 | 0.2 | 0.7 | – | 8.3 | – | – | – | – | – | – | – |
| 1 to less than 1.5 | 28.8 | 12.5 | 59 | 8.3 | 1.2 | 11.8 | – | 41.7 | 1.3 | – | – | – | – | – | – |
| 1.5 to less than 2 | 0.2 | 0.7 | 3.3 | – | 16.8 | 30.9 | 26.2 | 36.7 | 12 | – | – | – | – | – | – |
| 2 to less than 3 | – | – | – | – | 64.6 | 46.7 | 63.9 | 13.3 | 62.7 | – | – | – | – | – | – |
| 3 to less than 4 | – | – | – | – | 16.1 | 7.2 | 9.8 | – | 24 | – | – | – | – | – | – |
| 4 to less than 6 | – | – | – | – | 1 | 2.6 | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Manganese has atomic number 25, atomic mass 54.93805, limit of reporting 0.01 mg/kg, limit of detection 0.004 mg/kg, Australian standards—no limit.

## Mercury (Hg)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | 3.9 | 5.3 | 1.6 | – | 23.2 | 19.1 | 8.2 | 5 | 12 | 51.7 | 51.3 | 21.3 | 43.3 | 29.3 | – |
| Greater than 0 to 0.005 | 66.3 | 69.1 | 47.5 | 11.7 | 72.4 | 71.1 | 60.7 | 60 | 88 | 47.6 | 48.7 | 72.1 | 55 | 69.3 | – |
| Greater than 0.005 to 0.075 | 15.6 | 14.5 | 14.8 | 26.7 | 2.7 | 6.6 | 13.1 | 11.7 | – | – | – | 4.9 | 1.7 | 1.3 | – |
| Greater than 0.075 to 0.01 | 7.1 | 4.6 | 6.6 | 15 | 1.5 | 1.3 | 13.1 | 10 | – | 0.5 | – | – | – | – | – |
| Greater than 0.01 to 0.015 | 2.7 | 2 | 4.9 | 8.3 | – | 1.3 | 1.6 | 6.7 | – | – | – | 1.6 | – | – | – |
| Greater than 0.015 to 0.02 | 1.5 | 0.7 | – | 5 | 0.2 | 0.7 | – | – | – | – | – | – | – | – | – |
| Greater than 0.02 to 0.025 | 0.2 | 2 | 4.9 | 8.3 | – | – | 3.3 | 1.7 | – | 0.2 | – | – | – | – | – |
| Greater than 0.025 to 0.03 | 1.7 | – | 4.9 | 3.3 | – | – | – | 3.3 | – | – | – | – | – | – | – |
| Greater than 0.03 to 0.04 | 0.7 | – | 8.2 | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.04 to 0.05 | 0.2 | 1.3 | 4.9 | 6.7 | – | – | – | 1.7 | – | – | – | – | – | – | – |
| Greater than 0.05 to 0.3 | – | 0.7 | 1.6 | 15 | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Mercury has atomic number 80, atomic mass 200.59, limit of reporting 0.005 mg/kg, limit of detection 0.0011 mg/kg, Australian standards—no limit.

## Molybdenum (Mo)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 0.5 | 0.7 | – | – | – | – | – | – | – | 99.5 | 97.4 | 98.4 | 98.3 | 90.7 | 38.7 |
| 0.05 to less than 0.075 | 0.2 | – | – | – | – | – | – | – | – | – | 1.3 | – | – | 8 | 30 |
| 0.075 to less than 0.1 | 0.2 | – | – | – | – | – | – | – | – | 0.2 | – | 1.6 | 1.7 | – | 16.7 |
| 0.1 to less than 0.25 | 9.8 | 5.3 | – | 26.7 | – | 0.7 | – | – | – | 0.2 | 1.3 | – | – | 1.3 | 9.3 |
| 0.25 to less than 0.5 | 84.9 | 73 | 24.6 | 73.3 | 2.9 | 2.6 | 6.6 | – | 6.7 | – | – | – | – | – | 4.7 |
| 0.5 to less than 0.75 | 3.9 | 15.1 | 60.7 | – | 14.1 | 9.2 | 9.8 | – | 78.7 | – | – | – | – | – | 0.7 |
| 0.75 to less than 1 | 0.5 | 3.3 | 14.8 | – | 39.8 | 32.2 | 14.8 | 8.3 | 14.7 | – | – | – | – | – | – |
| 1 to less than 1.5 | – | 2 | – | – | 42.2 | 50 | 50.8 | 38.3 | – | – | – | – | – | – | – |
| 1.5 to less than 2 | – | – | – | – | 1 | 3.9 | 13.1 | 31.7 | – | – | – | – | – | – | – |
| 2 to less than 6 | – | 0.7 | – | – | – | 1.3 | 4.9 | 21.7 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Molybdenum has atomic number 42, atomic mass 95.94, limit of reporting 0.05 mg/kg, limit of detection 0.0057 mg/kg, Australian standards—no limit.

## Nickel (Ni)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 98 | 81.6 | 100 | 96.7 | 98.5 | 98 | 100 | 98.3 | 97.3 | 99.3 | 98.7 | 100 | 98.3 | 98.7 | 69.3 |
| 0.05 to less than 0.055 | 0.5 | 3.9 | – | 1.7 | 0.2 | – | – | – | – | 0.2 | 0.7 | – | – | – | 10 |
| 0.055 to less than 0.06 | – | 3.3 | – | – | 0.2 | – | – | – | – | – | – | – | – | – | 4.7 |
| 0.06 to less than 0.07 | 0.2 | 4.6 | – | – | 0.2 | 0.7 | – | – | 2.7 | – | – | – | 1.7 | – | 12 |
| 0.07 to less than 0.075 | – | 0.7 | – | 1.7 | – | – | – | – | – | – | – | – | – | – | 2.7 |
| 0.075 to less than 0.08 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | 1.3 | 0.7 |
| 0.08 to less than 0.085 | 0.5 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.085 to less than 0.09 | – | 1.3 | – | – | 0.2 | 0.7 | – | – | – | – | – | – | – | – | – |
| 0.09 to less than 0.1 | – | – | – | – | – | – | – | 1.7 | – | – | 0.7 | – | – | – | 0.7 |
| 0.1 to less than 0.6 | 0.7 | 2 | – | – | 0.5 | 0.7 | – | – | – | 0.5 | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Nickel has atomic number 28, atomic mass 58.6934, limit of reporting 0.05 mg/kg, limit of detection 0.007 mg/kg, Australian standards—no limit.

## Phosphorus (P)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 500 | – | 0.7 | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 500 to less than 750 | – | – | – | – | – | – | – | – | – | – | 0.7 | – | – | – | – |
| 750 to less than 1000 | – | – | – | – | – | – | – | – | – | 1.5 | 2 | – | – | – | – |
| 1000 to less than 1250 | 0.2 | – | – | – | – | – | – | – | – | 12.7 | 15.8 | 4.9 | 11.7 | – | 17.3 |
| 1250 to less than 1500 | 2.7 | 3.3 | 3.3 | 28.3 | – | – | – | – | 1.3 | 39.8 | 30.3 | 24.6 | 31.7 | – | 17.3 |
| 1500 to less than 2000 | 43.7 | 42.1 | 54.1 | 66.7 | 0.2 | – | – | 8.3 | – | 44.9 | 49.3 | 67.2 | 53.3 | 21.3 | 61.3 |
| 2000 to less than 2500 | 50.2 | 51.3 | 37.7 | 5 | 12.7 | 7.9 | 21.3 | 35 | 42.7 | 1.2 | 2 | 3.3 | 3.3 | 78.7 | 4 |
| 2500 to less than 3000 | 3.2 | 2.6 | 4.9 | – | 39.3 | 19.1 | 47.5 | 41.7 | 49.3 | – | – | – | – | – | – |
| 3000 to less than 4000 | – | – | – | – | 47.6 | 71.7 | 31.1 | 13.3 | 6.7 | – | – | – | – | – | – |
| 4000 to less than 6000 | – | – | – | – | 0.2 | 1.3 | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Phosphorus has atomic number 15, atomic mass 30.97376, limit of reporting 20 mg/kg, limit of detection 18.4752 mg/kg, Australian standards—no limit.

## Potassium (K)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 1000 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 12.7 |
| 1000 to less than 1250 | – | – | – | – | – | – | – | – | – | – | 0.7 | – | – | – | 22.7 |
| 1250 to less than 1500 | 2 | 3.9 | – | – | – | – | – | – | 1.3 | – | – | – | – | – | 47.3 |
| 1500 to less than 1750 | 9.3 | 20.4 | 19.7 | 15 | 0.2 | 2 | 3.3 | 3.3 | – | 1 | 0.7 | – | – | – | 17.3 |
| 1750 to less than 2000 | 22.9 | 36.8 | 32.8 | 28.3 | 6.1 | 12.5 | 8.2 | 6.7 | – | 4.1 | 8.6 | 1.6 | 8.3 | – | – |
| 2000 to less than 2250 | 34.6 | 29.6 | 32.8 | 38.3 | 15.4 | 19.1 | 34.4 | 20 | 14.7 | 10 | 16.4 | 3.3 | 10 | – | – |
| 2250 to less than 2500 | 22.7 | 7.2 | 9.8 | 18.3 | 24.6 | 36.2 | 29.5 | 16.7 | 44 | 24.6 | 24.3 | 21.3 | 23.3 | – | – |
| 2500 to less than 2750 | 8 | 2 | 4.9 | – | 29.3 | 22.4 | 13.1 | 33.3 | 34.7 | 25.1 | 28.9 | 34.4 | 33.3 | 4 | – |
| 2750 to less than 3000 | 0.5 | – | – | – | 17.8 | 6.6 | 8.2 | 20 | 5.3 | 22.2 | 13.2 | 24.6 | 23.3 | 36 | – |
| 3000 to less than 5000 | – | – | – | – | 6.6 | 1.3 | 3.3 | – | – | 12.9 | 7.2 | 14.8 | 1.7 | 60 | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Potassium has atomic number 19, atomic mass 39.0983, limit of reporting 1 mg/kg, limit of detection 0.564 mg/kg, Australian standards—no limit.

## Rubidium (Rb)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 1 | 2.9 | 11.2 | – | 11.7 | – | 2 | – | 3.3 | – | 3.4 | 11.2 | – | 11.7 | – | 12 |
| 1 to less than 2.5 | 32.2 | 34.9 | 23 | 38.3 | 9 | 19.7 | 1.6 | 18.3 | – | 34.1 | 33.6 | 6.6 | 40 | – | 44.7 |
| 2.5 to less than 5 | 31.5 | 23.7 | 32.8 | 35 | 30.5 | 26.3 | 31.1 | 30 | 28 | 32.9 | 25.7 | 42.6 | 36.7 | 28 | 43.3 |
| 5 to less than 10 | 24.9 | 18.4 | 32.8 | 15 | 28.5 | 21.7 | 32.8 | 45 | 53.3 | 22.0 | 18.4 | 34.4 | 11.7 | 57.3 | – |
| 10 to less than 15 | 6.3 | 9.2 | 11.5 | – | 18.8 | 12.5 | 16.4 | 3.3 | 14.7 | 5.9 | 7.9 | 16.4 | – | 10.7 | – |
| 15 to less than 20 | 1.2 | 2.6 | – | – | 5.4 | 5.9 | 18 | – | 4 | 1 | 2.6 | – | – | 4 | – |
| 20 to less than 25 | 0.7 | – | – | – | 4.6 | 4.6 | – | – | – | 0.5 | 0.7 | – | – | – | – |
| 25 to less than 30 | 0.2 | – | – | – | 1.7 | 3.9 | – | – | – | – | – | – | – | – | – |
| 30 to less than 40 | – | – | – | – | 1.2 | 3.3 | – | – | – | 0.2 | – | – | – | – | – |
| 40 to less than 60 | – | – | – | – | 0.2 | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Rubidium has atomic number 37, atomic mass 85.4678, limit of reporting 0.01 mg/kg, limit of detection 0.0056 mg/kg, Australian standards—no limit.

## Scandium (Sc)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 70.2 | 80.9 | 78.7 | 71.7 | 70.5 | 73 | 83.6 | 71.7 | 97.3 | 72.2 | 75.7 | 72.1 | 76.7 | 96 | 79.3 |
| 0.05 to less than 0.06 | 2.9 | 5.9 | 4.9 | 5 | 2.4 | 4.6 | – | 1.7 | 2.7 | 3.4 | 5.3 | 4.9 | 6.7 | 4 | 2.7 |
| 0.06 to less than 0.07 | 4.4 | 2.6 | 4.9 | 1.7 | 3.4 | 5.3 | – | 1.7 | – | 2.2 | 4.6 | 1.6 | 1.7 | – | 4.7 |
| 0.07 to less than 0.08 | 5.6 | 1.3 | 1.6 | 1.7 | 3.2 | 5.9 | 3.3 | 5 | – | 4.9 | 2.6 | 6.6 | 1.7 | – | 2.7 |
| 0.08 to less than 0.09 | 4.9 | 3.3 | 3.3 | 5 | 3.2 | 3.9 | 3.3 | 1.7 | – | 4.6 | 2.6 | 1.6 | – | – | – |
| 0.09 to less than 0.1 | 2.4 | 0.7 | – | 5 | 3.9 | 0.7 | 1.6 | 1.7 | – | 2.9 | 1.3 | 1.6 | 1.7 | – | 2 |
| 0.1 to less than 0.11 | 2 | 1.3 | – | – | 3.7 | 2.6 | 1.6 | 5 | – | 2.4 | 3.3 | 1.6 | 1.7 | – | 0.7 |
| 0.11 to less than 0.13 | 3.7 | 2.6 | 4.9 | 3.3 | 6.3 | 2 | 6.6 | 3.3 | – | 3.7 | 2.0 | 3.3 | 6.7 | – | 5.3 |
| 0.13 to less than 0.15 | 2.4 | 0.7 | 1.6 | 3.3 | 2 | 0.7 | – | 5 | – | 2.7 | 2.6 | 3.3 | 3.3 | – | 0.7 |
| 0.15 to less than 0.25 | 1.5 | 0.7 | – | 3.3 | 1.5 | 1.3 | – | 3.3 | – | 1 | – | 3.3 | – | – | 2 |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Scandium has atomic number 21, atomic mass 44.95591, limit of reporting 0.05 mg/kg, limit of detection 0.0086 mg/kg, Australian standards—no limit.

## Selenium (Se)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0 to 0.02 | – | – | – | – | – | – | – | – | – | 1 | 1.3 | – | – | – | – |
| Greater than 0.02 to 0.1 | – | – | – | – | 17.6 | 10.5 | – | – | – | 47.8 | 59.9 | – | 35 | – | – |
| Greater than 0.1 to 0.2 | – | – | – | – | 21.7 | 25.7 | – | 20 | – | 37.8 | 36.2 | 44.3 | 65 | 42.7 | 22.7 |
| Greater than 0.2 to 0.5 | 2.2 | 1.3 | – | – | 52 | 52 | 24.6 | 78.3 | 6.7 | 12.7 | 2.6 | 55.7 | – | 57.3 | 77.3 |
| Greater than 0.5 to 0.75 | 17.1 | 21.1 | – | 10 | 7.1 | 10.5 | 49.2 | 1.7 | 81.3 | 0.7 | – | – | – | – | – |
| Greater than 0.75 to 1 | 22.7 | 42.1 | 6.6 | 55 | 1.2 | 0.7 | 21.3 | – | 12 | – | – | – | – | – | – |
| Greater than 1 to 1.25 | 27.8 | 23 | 8.2 | 30 | 0.2 | – | 3.3 | – | – | – | – | – | – | – | – |
| Greater than 1.25 to 1.5 | 17.8 | 10.5 | 16.4 | 5 | – | – | 1.6 | – | – | – | – | – | – | – | – |
| Greater than 1.5 to 2 | 11.2 | 2 | 29.5 | – | 0.2 | 0.7 | – | – | – | – | – | – | – | – | – |
| Greater than 2 to 13 | 1.2 | – | 39.3 | – | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Selenium has atomic number 34, atomic mass 78.96, limit of reporting 0.02 mg/kg, limit of detection 0.017 mg/kg, Australian standards—no limit.

## Silicon (Si)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 1 | 7.6 | 17.8 | 39.3 | 15 | 33.7 | 41.4 | 37.7 | 25 | 52 | 39 | 42.8 | 45.9 | 31.7 | 50.7 | 52.7 |
| 1 to less than 2 | 17.6 | 22.4 | 16.4 | 23.3 | 30.2 | 23 | 21.3 | 13.3 | 40 | 25.6 | 23 | 13.1 | 21.7 | 38.7 | 36.7 |
| 2 to less than 3 | 21 | 22.4 | 8.2 | 15 | 13.7 | 13.8 | 3.3 | 15 | 8 | 14.9 | 14.5 | 13.1 | 11.7 | 9.3 | 10.7 |
| 3 to less than 3.5 | 14.9 | 9.2 | 11.5 | 3.3 | 6.8 | 4.6 | 6.6 | 6.7 | – | 6.6 | 3.3 | 6.6 | 6.7 | – | – |
| 3.5 to less than 4 | 6.6 | 6.6 | – | 8.3 | 6.3 | 5.9 | 9.8 | 8.3 | – | 5.6 | 3.9 | 1.6 | 5 | – | – |
| 4 to less than 4.5 | 7.1 | 5.3 | 8.2 | 5 | 4.6 | 5.3 | 4.9 | 8.3 | – | 3.2 | 5.3 | 8.2 | 13.3 | – | – |
| 4.5 to less than 5 | 6.1 | 5.3 | 8.2 | 11.7 | 1.7 | 2 | 8.2 | 5 | – | 2 | 3.9 | 9.8 | 3.3 | – | – |
| 5 to less than 5.5 | 5.6 | 3.3 | 3.3 | 6.7 | 1.7 | 2 | 4.9 | 6.7 | – | 2.7 | 3.3 | 1.6 | 1.7 | – | – |
| 5.5 to less than 6 | 5.4 | 2 | 3.3 | 1.7 | 0.2 | 1.3 | 1.6 | 5 | – | 0.2 | – | – | 1.7 | – | – |
| 6 to less than 10 | 8.3 | 5.9 | 1.6 | 10 | 1 | 0.7 | 1.6 | 6.7 | – | 0.2 | – | – | 3.3 | 1.3 | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Silicon has atomic number 14, atomic mass 28.0855, limit of reporting 5 mg/kg, limit of detection 2 mg/kg, Australian standards—no limit.

## Silver (Ag)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | 100 | 99.3 | 98.4 | 100 | 47.8 | 26.3 | 100 | 98.3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0.01 to less than 0.011 | – | – | – | – | 3.2 | 4.6 | – | – | – | – | – | – | – | – | – |
| 0.011 to less than 0.012 | – | – | – | – | 3.9 | 0.7 | – | – | – | – | – | – | – | – | – |
| 0.012 to less than 0.0125 | – | – | – | – | 1.7 | 2 | – | – | – | – | – | – | – | – | – |
| 0.0125 to less than 0.13 | – | – | – | – | 2.7 | 1.3 | – | 1.7 | – | – | – | – | – | – | – |
| 0.13 to less than 0.0135 | – | 0.7 | – | – | 2.2 | 1.3 | – | – | – | – | – | – | – | – | – |
| 0.0135 to less than 0.014 | – | – | – | – | 0.7 | 0.7 | – | – | – | – | – | – | – | – | – |
| 0.014 to less than 0.0145 | – | – | 1.6 | – | 37.3 | 56.6 | – | – | – | – | – | – | – | – | – |
| 0.0145 to less than 0.15 | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – | – | – |
| 0.15 to less than 0.24 | – | – | – | – | 0.5 | 3.3 | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Silver has atomic number 47, atomic mass 107.8682, limit of reporting 0.01 mg/kg, limit of detection 0.0048 mg/kg, Australian standards—no limit.

## Sodium (Na)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 250 | – | – | – | – | – | – | – | – | – | – | – | 1.6 | 1.7 | 12 | – |
| 250 to less than 500 | – | – | – | – | 30.5 | 22.4 | 1.6 | 45 | 2.7 | 60.7 | 54.6 | 85.2 | 88.3 | 88 | – |
| 500 to less than 750 | – | – | – | – | 66.6 | 76.3 | 27.9 | 53.3 | 74.7 | 37.3 | 44.1 | 13.1 | 10 | – | – |
| 750 to less than 1000 | 1.5 | – | 4.9 | – | 2.9 | 1.3 | 39.3 | 1.7 | 20 | 2 | 1.3 | – | – | – | 9.3 |
| 1000 to less than 1250 | 15.4 | 4.6 | 34.4 | 6.7 | – | – | 24.6 | – | 2.7 | – | – | – | – | – | 28.7 |
| 1250 to less than 1500 | 41 | 21.7 | 42.6 | 41.7 | – | – | 6.6 | – | – | – | – | – | – | – | 62 |
| 1500 to less than 1750 | 32.7 | 45.4 | 16.4 | 30 | – | – | – | – | – | – | – | – | – | – | – |
| 1750 to less than 2000 | 8.8 | 19.7 | 1.6 | 16.7 | – | – | – | – | – | – | – | – | – | – | – |
| 2000 to less than 2250 | 0.7 | 6.6 | – | 5 | – | – | – | – | – | – | – | – | – | – | – |
| 2250 to less than 2600 | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Sodium has atomic number 11, atomic mass 22.98977, limit of reporting 1 mg/kg, limit of detection 0.7548 mg/kg, Australian standards—no limit.

## Strontium (Sr)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | – | – | – | – | 0.5 | – | 8.2 | – | – | 0.7 | – | 23 | – | – | – |
| 0.01 to less than 0.04 | 1.7 | 0.7 | 42.6 | – | 26.3 | 6.6 | 86.9 | – | 36 | 38.3 | 20.4 | 75.4 | 15 | 93.3 | – |
| 0.04 to less than 0.1 | 23.7 | 4.6 | 57.4 | – | 63.9 | 63.8 | 4.9 | 61.7 | 61.3 | 44.1 | 67.8 | 1.6 | 56.7 | 5.3 | – |
| 0.1 to less than 0.3 | 66.6 | 72.4 | – | 51.7 | 8.8 | 25 | – | 31.7 | 1.3 | 16.3 | 11.2 | – | 20 | 1.3 | 13.3 |
| 0.3 to less than 0.5 | 6.6 | 13.8 | – | 31.7 | – | 2.6 | – | 1.7 | – | 0.5 | – | – | 5 | – | 58 |
| 0.5 to less than 0.8 | 0.7 | 5.9 | – | 11.7 | 0.2 | 0.7 | – | 1.7 | 1.3 | – | 0.7 | – | 1.7 | – | 14.7 |
| 0.8 to less than 1 | 0.2 | – | – | – | – | 0.7 | – | – | – | – | – | – | – | – | 2.7 |
| 1 to less than 2 | 0.5 | 2 | – | 3.3 | – | 0.7 | – | 3.3 | – | – | – | – | 1.7 | – | 7.3 |
| 2 to less than 3 | – | 0.7 | – | 1.7 | – | – | – | – | – | – | – | – | – | – | 2 |
| 3 to less than 4 | – | – | – | – | 0.2 | – | – | – | – | – | – | – | – | – | 2 |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Strontium has atomic number 38, atomic mass 87.62, limit of reporting 0.01 mg/kg, limit of detection 0.0036 mg/kg, Australian standards—no limit.

## Thallium (Tl)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 98.5 | 96.1 | 100 | 100 | 100 | 99.3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0.05 to less than 0.055 | 0.2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.055 to less than 0.06 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.06 to less than 0.065 | 0.2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.065 to less than 0.07 | – | 0.7 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.07 to less than 0.075 | – | 1.3 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.075 to less than 0.08 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.08 to less than 0.09 | 0.2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.09 to less than 0.1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.1 to less than 0.7 | 0.7 | 2 | – | – | – | 0.7 | – | – | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Thallium has atomic number 81, atomic mass 204.3833, limit of reporting 0.05 mg/kg, limit of detection 0.007 mg/kg, Australian standards—no limit.

## Tin (Sn)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | 99.5 | 100 | 100 | 100 | 99.3 | 100 | 98.4 | 93.3 | 98.7 | 100 | 99.3 | 100 | 100 | 100 | 100 |
| 0.01 to less than 0.011 | 0.2 | – | – | – | – | – | 1.6 | – | – | – | – | – | – | – | – |
| 0.011 to less than 0.012 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.012 to less than 0.013 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.013 to less than 0.014 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.014 to less than 0.015 | 0.2 | – | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.015 to less than 0.0175 | – | – | – | – | 0.2 | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.0175 to less than 0.02 | – | – | – | – | 0.2 | – | – | 1.7 | 1.3 | – | – | – | – | – | – |
| 0.02 to less than 0.025 | – | – | – | – | 0.2 | – | – | – | – | – | – | – | – | – | – |
| 0.025 to less than 0.083 | – | – | – | – | – | – | – | 1.7 | – | – | 0.7 | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Tin has atomic number 50, atomic mass 118.69, limit of reporting 0.01 mg/kg, limit of detection 0.0025 mg/kg, Australian standard for all canned foods—250 mg/kg.

## Titanium (Ti)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 99 | 98.7 | 100 | 95 | 99 | 100 | 100 | 10 | 98.7 | 100 | 100 | 100 | 100 | 98.7 | 100 |
| 0.05 to less than 0.07 | 0.5 | 1.3 | – | 5 | 0.2 | – | – | 8.3 | – | – | – | – | – | – | – |
| 0.07 to less than 0.09 | 0.2 | – | – | – | 0.7 | – | – | 8.3 | – | – | – | – | – | – | – |
| 0.09 to less than 0.1 | – | – | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – |
| 0.1 to less than 0.15 | 0.2 | – | – | – | – | – | – | 8.3 | – | – | – | – | – | 1.3 | – |
| 0.15 to less than 0.2 | – | – | – | – | – | – | – | 16.7 | – | – | – | – | – | – | – |
| 0.2 to less than 0.3 | – | – | – | – | – | – | – | 13.3 | – | – | – | – | – | – | – |
| 0.3 to less than 0.4 | – | – | – | – | – | – | – | 3.3 | 1.3 | – | – | – | – | – | – |
| 0.4 to less than 0.5 | – | – | – | – | – | – | – | 6.7 | – | – | – | – | – | – | – |
| 0.5 to less than 3 | – | – | – | – | – | – | – | 21.7 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Titanium has atomic number 22, atomic mass 47.90, limit of reporting 0.05 mg/kg, limit of detection 0.009 mg/kg, Australian standard—no limit.

## Vanadium (V)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.01 | 52.2 | 27.6 | 80.3 | 23.3 | 87.6 | 80.9 | 85.2 | 6.7 | 100 | 100 | 100 | 100 | 100 | 98.7 | 100 |
| 0.01 to less than 0.03 | 44.1 | 57.9 | 16.4 | 76.7 | 10 | 16.4 | 9.8 | 43.3 | – | – | – | – | – | 1.3 | – |
| 0.03 to less than 0.04 | 1.2 | 5.3 | – | – | 1.2 | 1.3 | – | 18.3 | – | – | – | – | – | – | – |
| 0.04 to less than 0.05 | 0.7 | 2.6 | 1.6 | – | 0.5 | – | 3.3 | 13.3 | – | – | – | – | – | – | – |
| 0.05 to less than 0.06 | 0.7 | 2 | 1.6 | – | – | 0.7 | – | 6.7 | – | – | – | – | – | – | – |
| 0.06 to less than 0.07 | – | 2.6 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.07 to less than 0.08 | – | 0.7 | – | – | 0.2 | – | – | 5 | – | – | – | – | – | – | – |
| 0.08 to less than 0.09 | 0.5 | 1.3 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.09 to less than 0.1 | – | – | – | – | – |  | – | – | – | – | – | – | – | – | – |
| 0.1 to less than 0.3 | 0.5 | – | – | – | 0.5 | 0.7 | 1.6 | 6.7 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Vanadium has atomic number 23, atomic mass 50.94, limit of reporting 0.01 mg/kg, limit of detection 0.0058 mg/kg, Australian standard—no limit.

## Zinc (Zn)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0 to 0.05 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 0.05 to 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 1 to 2.5 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Greater than 2.5 to 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | 25.3 | – |
| Greater than 5 to 10 | – | – | – | – | – | – | – | – | – | – | – | – | 1.7 | 74.7 | 61.3 |
| Greater than 10 to 25 | 94.9 | 80.9 | 82 | 61.7 | 6.8 | 5.9 | 1.6 | – | 53.3 | 8.3 | 4.6 | 54.1 | 20 | – | 38.7 |
| Greater than 25 to 60 | 5.1 | 19.1 | 18 | 36.7 | 87.6 | 92.8 | 42.6 | 50 | 45.3 | 81.5 | 92.1 | 45.9 | 78.3 | – | – |
| Greater than 60 to 75 | – | – | – | – | 4.4 | – | 19.7 | 10 | 1.3 | 9 | 3.3 | – | – | – | – |
| Greater than 75 to 100 | – | – | – | – | 1 | 0.7 | 26.2 | 15 | – | 1.2 | – | – | – | – | – |
| Greater than 100 to 235 | – | – | – | 1.7 | 0.2 | 0.7 | 9.8 | 25 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note:** Zinc has atomic number 30, atomic mass 65.37, limit of reporting 0.05 mg/kg, limit of detection 0.0357 mg/kg, Australian standard—no limit.

## Zirconium (Zr)

| Concentration range (mg/kg) | Kidney samples | | | | Liver samples | | | | | Muscle samples | | | | | Egg samples |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cattle | Sheep | Pig | Horse | Cattle | Sheep | Pig | Horse | Poultry | Cattle | Sheep | Pig | Horse | Poultry | Poultry |
| 0 to less than 0.05 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0.05 to less than 0.06 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.06 to less than 0.07 | – | – | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.07 to less than 0.075 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.075 to less than 0.08 | – | – | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.08 to less than 0.085 | – | – | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – |
| 0.085 to less than 0.09 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 0.09 to less than 0.095 | – | – | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – |
| 0.095 to less than 0.1 | – | – | – | – | – | – | – | 1.7 | – | – | – | – | – | – | – |
| 0.1 to less than 0.35 | – | – | – | – | – | – | – | 3.3 | – | – | – | – | – | – | – |
| **Total number of samples** | **410** | **152** | **61** | **60** | **410** | **152** | **61** | **60** | **75** | **410** | **152** | **61** | **60** | **75** | **150** |

**Note**: Zirconium has atomic number 23, atomic mass 50.9415, limit of reporting 0.05 mg/kg, limit of detection 0.0081 mg/kg, Australian standard—no limit.