



# Beef residue testing annual datasets 2017–18

National Residue Survey, Department of Agriculture and Water Resources

## Dataset abbreviations

**LOR** Limit of reporting.

**MRL** Maximum Residue Limit.

**no limit** No Australian Standard applicable for the contaminant. The ‘as low as reasonably achievable’ principle applies. Detections at low levels are allowable.

**not defined** Standards are not defined in inedible matrixes (urine, retina and faeces).

**not set** No Australian Standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australia New Zealand Food Standards Code.

## Disclaimer

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**Table 1 Anthelmintics**

| Chemical             | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL<br>to ≤ MRL | > MRL |
|----------------------|--------|----------------|----------------|-----------------------------|---------------------|---------------------|-------|
| abamectin            | fat    | 0.005          | 0.1            | 330                         | 0                   | 0                   | 0     |
| albendazole          | liver  | 0.001          | 0.1            | 330                         | 0                   | 0                   | 0     |
| clorsulon            | liver  | 0.08           | 0.1            | 330                         | 0                   | 0                   | 0     |
| closantel            | liver  | 0.05           | not set        | 330                         | 0                   | 0                   | 0     |
| derquantel           | fat    | 0.005          | not set        | 330                         | 0                   | 0                   | 0     |
| doramectin           | fat    | 0.005          | 0.1            | 330                         | 4                   | 1                   | 0     |
| emamectin            | fat    | 0.005          | 0.01           | 330                         | 0                   | 0                   | 0     |
| eprinomectin B1a     | fat    | 0.005          | 0.5            | 330                         | 0                   | 0                   | 0     |
| fenbendazole         | liver  | 0.001          | 0.1            | 330                         | 19                  | 0                   | 0     |
| fenbendazole sulfone | liver  | 0.001          | not set        | 330                         | 0                   | 0                   | 0     |
| ivermectin H2B1a     | fat    | 0.005          | 0.2            | 330                         | 1                   | 0                   | 0     |
| levamisole           | liver  | 0.001          | 1              | 330                         | 1                   | 0                   | 0     |

| Chemical                                   | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL<br>to ≤ MRL | > MRL |
|--------------------------------------------|--------|----------------|----------------|-----------------------------|---------------------|---------------------|-------|
| mebendazole                                | liver  | 0.005          | 0.02           | 330                         | 0                   | 0                   | 0     |
| mebendazole, 5-<br>hydroxy-                | liver  | 0.005          | not set        | 330                         | 0                   | 0                   | 0     |
| milbemectin                                | fat    | 0.01           | 0.002          | 330                         | 0                   | 0                   | 0     |
| monepantel sulphone                        | fat    | 0.005          | 7              | 330                         | 0                   | 0                   | 0     |
| morantel                                   | liver  | 0.001          | 2              | 330                         | 0                   | 0                   | 0     |
| moxidectin                                 | fat    | 0.005          | 1              | 330                         | 22                  | 0                   | 0     |
| nitroxylnil                                | liver  | 0.012          | 1              | 330                         | 0                   | 0                   | 0     |
| oxfendazole<br>(fenbendazole<br>sulfoxide) | liver  | 0.001          | 3              | 330                         | 2                   | 0                   | 0     |
| oxibendazole                               | liver  | 0.001          | not set        | 330                         | 0                   | 0                   | 0     |
| praziquantel                               | fat    | 0.005          | not set        | 330                         | 0                   | 0                   | 0     |
| thiabendazole-A                            | liver  | 0.006          | 0.2            | 330                         | 0                   | 0                   | 0     |
| triclabendazole                            | liver  | 0.05           | 2              | 330                         | 1                   | 0                   | 0     |

**Table 2 Antibiotics**

| Chemical                          | Matrix     | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL<br>to ≤ MRL | > MRL |
|-----------------------------------|------------|----------------|----------------|-----------------------------|---------------------|---------------------|-------|
| AHD                               | retina x 2 | 0.002          | not defined    | 50                          | 0                   | –                   | –     |
| amoxicillin                       | kidney     | 0.01           | 0.01           | 970                         | 0                   | 0                   | 0     |
| AMOZ                              | retina x 2 | 0.002          | not defined    | 50                          | 0                   | –                   | –     |
| ampicillin                        | kidney     | 0.01           | not set        | 970                         | 0                   | 0                   | 0     |
| amprolium                         | liver      | 0.01           | not set        | 330                         | 0                   | 0                   | 0     |
| AOZ                               | retina x 2 | 0.002          | not defined    | 50                          | 0                   | –                   | –     |
| apramycin                         | kidney     | 0.5            | 2              | 970                         | 0                   | 0                   | 0     |
| avilamycin                        | kidney     | 0.1            | not set        | 970                         | 0                   | 0                   | 0     |
| benzyl G penicillin               | kidney     | 0.01           | 0.06           | 970                         | 0                   | 0                   | 0     |
| ceftiofur<br>(desfuroylceftiofur) | kidney     | 0.2            | 2              | 970                         | 0                   | 0                   | 0     |
| cefuroxime                        | kidney     | 0.05           | 0.1            | 970                         | 0                   | 0                   | 0     |
| cephalonium                       | kidney     | 0.05           | 0.1            | 970                         | 0                   | 0                   | 0     |
| chloramphenicol                   | muscle     | 0.0003         | not set        | 431                         | 0                   | 0                   | 0     |
| chlortetracycline                 | kidney     | 0.01           | 0.6            | 970                         | 19                  | 0                   | 0     |
| ciprofloxacin                     | kidney     | 0.005          | not set        | 50                          | 0                   | 0                   | 0     |
| cloxacillin                       | kidney     | 0.05           | not set        | 970                         | 0                   | 0                   | 0     |
| danofloxacin                      | kidney     | 0.005          | not set        | 50                          | 0                   | 0                   | 0     |
| difloxacin                        | kidney     | 0.005          | not set        | 50                          | 0                   | 0                   | 0     |
| dihydrostreptomycin               | kidney     | 0.1            | 0.3            | 970                         | 0                   | 0                   | 0     |
| doxycycline                       | kidney     | 0.01           | not set        | 970                         | 0                   | 0                   | 0     |
| enrofloxacin                      | kidney     | 0.005          | not set        | 50                          | 0                   | 0                   | 0     |

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| Chemical                                 | Matrix     | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½<br>MRL | > ½<br>MRL to<br>≤ MRL | > MRL |
|------------------------------------------|------------|----------------|----------------|-----------------------------|------------------------|------------------------|-------|
| erythromycin                             | kidney     | 0.1            | 0.3            | 970                         | 0                      | 0                      | 0     |
| florfenicol                              | muscle     | 0.005          | 0.3            | 431                         | 0                      | 0                      | 0     |
| flumequine                               | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| gatifloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| gentamycin                               | kidney     | 0.1            | not set        | 970                         | 0                      | 0                      | 0     |
| halofuginone                             | liver      | 0.01           | 0.03           | 330                         | 0                      | 0                      | 0     |
| lasalocid                                | liver      | 0.01           | 0.7            | 330                         | 3                      | 0                      | 0     |
| levofloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| lincomycin                               | kidney     | 0.1            | 0.2            | 970                         | 0                      | 0                      | 0     |
| lomefloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| maduramicin                              | liver      | 0.002          | not set        | 330                         | 0                      | 0                      | 0     |
| marbofloxacin                            | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| monensin                                 | liver      | 0.01           | 0.05           | 330                         | 30                     | 0                      | 0     |
| moxifloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| nalidixic acid                           | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| narasin                                  | liver      | 0.01           | 0.05           | 330                         | 0                      | 0                      | 0     |
| neomycin                                 | kidney     | 0.1            | 10             | 970                         | 1                      | 0                      | 0     |
| nicarbazin (4,4'-<br>dinitrocarbanilide) | liver      | 0.01           | not set        | 330                         | 0                      | 0                      | 0     |
| norfloxacin                              | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| oleandomycin                             | kidney     | 0.2            | 0.1            | 970                         | 0                      | 0                      | 0     |
| orbifloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| oxolinic acid                            | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| oxytetracycline                          | kidney     | 0.01           | 0.6            | 970                         | 8                      | 0                      | 0     |
| salinomycin                              | liver      | 0.002          | 0.5            | 330                         | 0                      | 0                      | 0     |
| sarafloxacin                             | kidney     | 0.005          | not set        | 50                          | 0                      | 0                      | 0     |
| SEM                                      | retina x 2 | 0.002          | not defined    | 50                          | 0                      | –                      | –     |
| semduramycin                             | liver      | 0.002          | not set        | 330                         | 0                      | 0                      | 0     |
| streptomycin                             | kidney     | 0.1            | 0.3            | 970                         | 0                      | 0                      | 0     |
| sulfachloropyridazine                    | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfadiazine                             | kidney     | 0.05           | 0.1            | 970                         | 0                      | 0                      | 0     |
| sulfadimethoxine                         | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfadimidine<br>(sulfamethazine)        | kidney     | 0.05           | 0.1            | 970                         | 0                      | 0                      | 0     |
| sulfadoxine                              | kidney     | 0.05           | 0.1            | 970                         | 0                      | 0                      | 0     |
| sulfafurazole                            | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfamerazine                            | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfamethoxazole                         | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfamethoxydiazine<br>(sulfameter)      | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfamethoxypyridazine                   | kidney     | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |

| Chemical         | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½<br>MRL | > ½<br>MRL to<br>≤ MRL | > MRL |
|------------------|--------|----------------|----------------|-----------------------------|------------------------|------------------------|-------|
| sulfapyridine    | kidney | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfaquinoxaline | kidney | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfathiazole    | kidney | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| sulfatroxazole   | kidney | 0.05           | 0.1            | 970                         | 0                      | 0                      | 0     |
| tetracycline     | kidney | 0.01           | not set        | 970                         | 0                      | 0                      | 0     |
| thiamphenicol    | muscle | 0.005          | not set        | 431                         | 0                      | 0                      | 0     |
| tilmicosin       | kidney | 0.2            | 1              | 970                         | 0                      | 0                      | 0     |
| trimethoprim     | kidney | 0.05           | not set        | 970                         | 0                      | 0                      | 0     |
| tulathromycin    | kidney | 0.3            | 1              | 970                         | 0                      | 1                      | 0     |
| tylosin          | kidney | 0.1            | 0.1            | 970                         | 0                      | 0                      | 0     |
| virginiamycin    | kidney | 0.2            | 0.2            | 970                         | 0                      | 0                      | 0     |

**Table 3 Contaminants**

| Chemical                           | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½<br>MRL | > ½ MRL to<br>≤ MRL | > MRL |
|------------------------------------|--------|----------------|----------------|-----------------------------|------------------------|---------------------|-------|
| aldrin and dieldrin<br>(HHDN+HEOD) | fat    | 0.02           | 0.2            | 1115                        | 0                      | 0                   | 0     |
| arochlor 1254                      | fat    | 0.03           | 0.2            | 1115                        | 0                      | 0                   | 0     |
| arochlor 1260                      | fat    | 0.03           | 0.2            | 1115                        | 0                      | 0                   | 0     |
| chlordane                          | fat    | 0.02           | 0.2            | 1115                        | 0                      | 0                   | 0     |
| DDT                                | fat    | 0.05           | 5              | 1115                        | 9                      | 0                   | 0     |
| endosulfan                         | fat    | 0.02           | not set        | 1115                        | 0                      | 0                   | 0     |
| endrin                             | fat    | 0.01           | not set        | 1115                        | 0                      | 0                   | 0     |
| HCB<br>(hexachlorobenzene)         | fat    | 0.02           | 1              | 1115                        | 0                      | 0                   | 0     |
| HCH (BHC)                          | fat    | 0.02           | 0.3            | 1115                        | 0                      | 0                   | 0     |
| heptachlor                         | fat    | 0.02           | 0.2            | 1115                        | 0                      | 0                   | 0     |
| lindane (gamma-HCH)                | fat    | 0.01           | 2              | 1115                        | 0                      | 0                   | 0     |
| mirex                              | fat    | 0.02           | not set        | 1115                        | 0                      | 0                   | 0     |
| pentachlorobenzene                 | fat    | 0.02           | not set        | 1115                        | 0                      | 0                   | 0     |

**Table 4 Fungicides**

| Chemical        | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL to<br>≤ MRL | > MRL |
|-----------------|--------|----------------|----------------|--------------------------|---------------------|---------------------|-------|
| bixafen         | fat    | 0.02           | not set        | 440                      | 0                   | 0                   | 0     |
| boscalid        | fat    | 0.01           | 0.3            | 1115                     | 0                   | 0                   | 0     |
| carbendazim     | fat    | 0.01           | 0.2            | 1115                     | 0                   | 0                   | 0     |
| cyproconazole   | fat    | 0.02           | 0.03           | 1115                     | 0                   | 0                   | 0     |
| fluquinconazole | fat    | 0.01           | 0.5            | 1115                     | 1                   | 0                   | 0     |
| flutriafol      | fat    | 0.02           | 0.5            | 1115                     | 0                   | 0                   | 0     |

| Chemical        | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|-----------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| fluxapyroxad    | fat    | 0.01        | 0.05        | 1115                  | 0                               | 0                                 | 0     |
| procymidone     | fat    | 0.02        | 0.2         | 1115                  | 0                               | 0                                 | 0     |
| propiconazole   | fat    | 0.02        | 0.1         | 1115                  | 0                               | 0                                 | 0     |
| prothioconazole | fat    | 0.02        | 0.02        | 1115                  | 0                               | 0                                 | 0     |
| quintozene      | fat    | 0.02        | not set     | 1115                  | 0                               | 0                                 | 0     |

**Table 5 Herbicides**

| Chemical      | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|---------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| ethofumesate  | fat    | 0.02        | 0.5         | 1115                  | 0                               | 0                                 | 0     |
| metazachlor   | fat    | 0.01        | not set     | 440                   | 0                               | 0                                 | 0     |
| metolachlor   | fat    | 0.02        | 0.05        | 1115                  | 0                               | 0                                 | 0     |
| propachlor    | fat    | 0.02        | 0.02        | 1115                  | 0                               | 0                                 | 0     |
| pyrasulfotole | fat    | 0.01        | 0.01        | 1115                  | 0                               | 0                                 | 0     |

**Table 6 Hormones**

| Chemical                   | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|----------------------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| 16-hydroxystanozolol       | urine  | 0.001       | not defined | 430                   | 0                               | –                                 | –     |
| betamethasone              | liver  | 0.001       | not set     | 30                    | 0                               | 0                                 | 0     |
| boldenone 17-alpha         | urine  | 0.001       | not defined | 430                   | 0                               | –                                 | –     |
| boldenone 17-beta          | urine  | 0.001       | not defined | 430                   | 0                               | –                                 | –     |
| dexamethasone              | liver  | 0.001       | 0.1         | 30                    | 0                               | 0                                 | 0     |
| dienoestrol                | liver  | 0.0002      | not set     | 430                   | 0                               | 0                                 | 0     |
| diethylstilboestrol        | liver  | 0.0002      | not set     | 430                   | 0                               | 0                                 | 0     |
| flumethasone               | liver  | 0.001       | not set     | 30                    | 0                               | 0                                 | 0     |
| hexoestrol                 | liver  | 0.0002      | not set     | 430                   | 0                               | 0                                 | 0     |
| methandriol                | urine  | 0.005       | not defined | 430                   | 0                               | –                                 | –     |
| methylprednisolone         | liver  | 0.001       | not set     | 30                    | 0                               | 0                                 | 0     |
| nortestosterone 17-alpha   | urine  | 0.001       | not defined | 430                   | 2                               | –                                 | –     |
| nortestosterone 17-beta    | urine  | 0.001       | not defined | 430                   | 0                               | –                                 | –     |
| stanozolol                 | urine  | 0.001       | not defined | 430                   | 0                               | –                                 | –     |
| trenbolone                 | liver  | 0.0005      | 0.01        | 430                   | 7                               | 0                                 | 0     |
| triamcinolone              | liver  | 0.001       | not set     | 30                    | 0                               | 0                                 | 0     |
| triamcinolone acetonide    | liver  | 0.001       | not set     | 30                    | 0                               | 0                                 | 0     |
| zeranol (alpha-zearalanol) | liver  | 0.002       | 0.02        | 430                   | 0                               | 0                                 | 1     |

**Table 7 Insecticides**

| Chemical                            | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL<br>to ≤ MRL | > MRL |
|-------------------------------------|--------|----------------|----------------|-----------------------------|---------------------|---------------------|-------|
| bifenthrin                          | fat    | 0.02           | 2              | 1115                        | 1                   | 0                   | 0     |
| bioresmethrin                       | fat    | 0.02           | not set        | 1115                        | 0                   | 0                   | 0     |
| carbaryl                            | fat    | 0.01           | 0.07           | 1115                        | 0                   | 0                   | 0     |
| chlorantraniliprole                 | fat    | 0.01           | 0.02           | 1115                        | 0                   | 0                   | 0     |
| chlorfenapyr                        | fat    | 0.02           | 0.05           | 1115                        | 0                   | 0                   | 0     |
| chlorfenvinphos (sum of<br>isomers) | fat    | 0.02           | 0.2            | 1115                        | 0                   | 0                   | 1     |
| chlorfluazuron                      | fat    | 0.01           | not set        | 330                         | 0                   | 0                   | 0     |
| chlorpyrifos                        | fat    | 0.02           | 0.5            | 1115                        | 0                   | 0                   | 0     |
| chlorpyrifos-methyl                 | fat    | 0.02           | 0.05           | 1115                        | 0                   | 0                   | 0     |
| coumaphos                           | fat    | 0.02           | 0.02           | 1115                        | 0                   | 0                   | 0     |
| cyfluthrin (sum of<br>isomers)      | fat    | 0.02           | 0.5            | 1115                        | 0                   | 0                   | 0     |
| cyhalothrin (sum of<br>isomers)     | fat    | 0.02           | 0.5            | 1115                        | 0                   | 0                   | 0     |
| cypermethrin (sum of<br>isomers)    | fat    | 0.02           | 0.5            | 1115                        | 2                   | 0                   | 0     |
| cyromazine                          | kidney | 0.01           | 0.05           | 330                         | 0                   | 0                   | 0     |
| deltamethrin                        | fat    | 0.02           | 0.5            | 1115                        | 5                   | 0                   | 0     |
| diafenthiuron                       | fat    | 0.01           | not set        | 1115                        | 0                   | 0                   | 0     |
| diazinon                            | fat    | 0.02           | 0.7            | 1115                        | 3                   | 0                   | 0     |
| dichlorvos                          | fat    | 0.02           | 0.01           | 1115                        | 0                   | 0                   | 0     |
| dicofol                             | fat    | 0.01           | not set        | 1115                        | 0                   | 0                   | 0     |
| dicyclanil                          | kidney | 0.01           | not set        | 330                         | 0                   | 0                   | 0     |
| diflubenzuron                       | fat    | 0.01           | 0.02           | 330                         | 0                   | 0                   | 0     |
| dimethoate                          | fat    | 0.02           | 0.05           | 1115                        | 0                   | 0                   | 0     |
| dinotefuran                         | fat    | 0.03           | not set        | 440                         | 0                   | 0                   | 0     |
| esfenvalerate                       | fat    | 0.02           | 1              | 1115                        | 0                   | 0                   | 0     |
| ethion                              | fat    | 0.02           | 2.5            | 1115                        | 0                   | 0                   | 0     |
| famphur                             | fat    | 0.02           | not set        | 1115                        | 0                   | 0                   | 0     |
| famphur oxygen-<br>analogue         | fat    | 0.02           | not set        | 1115                        | 0                   | 0                   | 0     |
| fenitrothion                        | fat    | 0.02           | 0.05           | 1115                        | 0                   | 0                   | 0     |
| fenthion                            | fat    | 0.02           | not set        | 1115                        | 0                   | 0                   | 0     |
| fenvalerate (sum of<br>isomers)     | fat    | 0.02           | 1              | 1115                        | 0                   | 0                   | 0     |
| fipronil                            | fat    | 0.02           | 0.1            | 1115                        | 1                   | 0                   | 1     |
| fluazuron                           | fat    | 0.01           | 7              | 330                         | 12                  | 0                   | 0     |
| flubendiamide                       | fat    | 0.01           | 0.05           | 1115                        | 1                   | 0                   | 0     |
| flumethrin                          | fat    | 0.02           | 0.2            | 1115                        | 0                   | 0                   | 0     |

| Chemical                    | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|-----------------------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| imidacloprid                | fat    | 0.01        | 0.05        | 1115                  | 0                               | 0                                 | 0     |
| indoxacarb                  | fat    | 0.02        | 1           | 1115                  | 0                               | 0                                 | 0     |
| malathion (maldison)        | fat    | 0.01        | 1           | 1115                  | 0                               | 0                                 | 0     |
| melamine                    | kidney | 0.01        | not set     | 330                   | 0                               | 0                                 | 0     |
| methidathion                | fat    | 0.02        | 0.5         | 1115                  | 0                               | 0                                 | 0     |
| methoxychlor                | fat    | 0.02        | not set     | 1115                  | 0                               | 0                                 | 0     |
| mevinphos                   | fat    | 0.01        | not set     | 1115                  | 0                               | 0                                 | 0     |
| novaluron                   | fat    | 0.01        | not set     | 7                     | 0                               | 0                                 | 0     |
| omethoate                   | fat    | 0.02        | not set     | 1115                  | 0                               | 0                                 | 0     |
| parathion-methyl            | fat    | 0.02        | not set     | 1115                  | 0                               | 0                                 | 0     |
| permethrin (sum of isomers) | fat    | 0.02        | 1           | 1115                  | 6                               | 0                                 | 0     |
| phosmet                     | fat    | 0.02        | 1           | 1115                  | 0                               | 0                                 | 0     |
| pirimiphos-methyl           | fat    | 0.02        | 0.05        | 1115                  | 0                               | 0                                 | 0     |
| prothiofos                  | fat    | 0.01        | not set     | 1115                  | 0                               | 0                                 | 0     |
| pyraclofos                  | fat    | 0.02        | not set     | 1115                  | 0                               | 0                                 | 0     |
| spinetoram                  | fat    | 0.005       | 2           | 330                   | 0                               | 0                                 | 0     |
| spinosad                    | fat    | 0.005       | 2           | 330                   | 57                              | 0                                 | 0     |
| spirotetramat               | fat    | 0.02        | 0.02        | 1115                  | 0                               | 0                                 | 0     |
| sulfoxaflor                 | fat    | 0.01        | 0.2         | 1115                  | 0                               | 0                                 | 0     |
| tau-fluvalinate             | fat    | 0.01        | not set     | 1115                  | 0                               | 0                                 | 0     |
| temephos                    | fat    | 0.02        | 5           | 1115                  | 0                               | 0                                 | 0     |
| triflumuron                 | fat    | 0.01        | 0.05        | 330                   | 0                               | 0                                 | 0     |

**Table 8 Metals**

| Chemical        | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|-----------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| antimony        | liver  | 0.01        | no limit    | 450                   | 0                               | 0                                 | 0     |
| arsenic (total) | liver  | 0.05        | no limit    | 450                   | 3                               | 0                                 | 0     |
| cadmium         | liver  | 0.01        | 1.25        | 450                   | 352                             | 2                                 | 2     |
| lead            | liver  | 0.01        | 0.5         | 450                   | 176                             | 1                                 | 0     |
| mercury (total) | liver  | 0.01        | no limit    | 450                   | 7                               | 0                                 | 0     |

**Table 9 Mycotoxins**

| Chemical                     | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to $\leq$ MRL | > MRL |
|------------------------------|--------|-------------|-------------|-----------------------|---------------------------------|-----------------------------------|-------|
| talernanol (beta-zearalanol) | liver  | 0.002       | no limit    | 430                   | 1                               | 0                                 | 0     |
| zearalanone                  | liver  | 0.002       | no limit    | 430                   | 1                               | 0                                 | 0     |
| zearalenol alpha             | liver  | 0.002       | no limit    | 430                   | 8                               | 0                                 | 0     |

| Chemical        | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL to<br>≤ MRL | > MRL |
|-----------------|--------|----------------|----------------|--------------------------|---------------------|---------------------|-------|
| zearalenol beta | liver  | 0.002          | no limit       | 430                      | 21                  | 0                   | 0     |
| zearalenone     | liver  | 0.002          | no limit       | 430                      | 5                   | 0                   | 0     |

**Table 10 Other veterinary drugs**

| Chemical        | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of samples<br>tested | > LOR to<br>≤ ½ MRL | > ½ MRL to<br>≤ MRL | > MRL |
|-----------------|--------|----------------|----------------|--------------------------|---------------------|---------------------|-------|
| cimaterol       | liver  | 0.0003         | not set        | 430                      | 0                   | 0                   | 0     |
| clenbuterol     | liver  | 0.0003         | not set        | 430                      | 0                   | 0                   | 0     |
| flunixin        | kidney | 0.01           | 0.02           | 330                      | 0                   | 0                   | 0     |
| ketoprofen      | kidney | 0.01           | 0.05           | 330                      | 0                   | 0                   | 0     |
| mabuterol       | liver  | 0.0003         | not set        | 430                      | 0                   | 0                   | 0     |
| meloxicam       | kidney | 0.01           | 0.2            | 330                      | 0                   | 0                   | 0     |
| oxyphenbutazone | kidney | 0.01           | not set        | 330                      | 0                   | 0                   | 0     |
| phenylbutazone  | kidney | 0.01           | not set        | 330                      | 0                   | 0                   | 0     |
| ractopamine     | liver  | 0.0003         | not set        | 430                      | 0                   | 0                   | 0     |
| salbutamol      | liver  | 0.001          | not set        | 430                      | 0                   | 0                   | 0     |
| tolfenamic acid | kidney | 0.005          | 0.01           | 330                      | 0                   | 0                   | 0     |
| zilpaterol      | liver  | 0.0003         | not set        | 430                      | 0                   | 0                   | 0     |