# Beef residue testing annual datasets 2019–20

National Residue Survey (NRS), Department of Agriculture, Water and the Environment

## 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.

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**Table 1: Anthelmintics**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| abamectin | fat | 0.005 | 0.1 | 564 | 0 | 0 | 0 |
| albendazole | liver | 0.001 | 0.1 | 563 | 0 | 0 | 0 |
| clorsulon | liver | 0.08 | 0.1 | 563 | 0 | 0 | 0 |
| closantel | liver | 0.05 | not set | 563 | 0 | 0 | 0 |
| derquantel | fat | 0.001 | not set | 564 | 0 | 0 | 0 |
| doramectin | fat | 0.005 | 0.1 | 564 | 6 | 0 | 0 |
| emamectin | fat | 0.002 | 0.01 | 564 | 0 | 0 | 0 |
| eprinomectin B1a | fat | 0.005 | 0.5 | 564 | 0 | 0 | 0 |
| fenbendazole | liver | 0.001 | 0.1 | 563 | 16 | 0 | 0 |
| fenbendazole sulfone | liver | 0.001 | not set | 563 | 0 | 0 | 0 |
| fluensulfone | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| ivermectin H2B1a | fat | 0.005 | 0.2 | 564 | 1 | 0 | 0 |
| levamisole | liver | 0.001 | 1 | 563 | 4 | 0 | 0 |
| mebendazole | liver | 0.005 | 0.02 | 563 | 0 | 0 | 0 |
| mebendazole, 5-hydroxy- | liver | 0.005 | not set | 563 | 0 | 0 | 0 |
| milbemectin | fat | 0.01 | 0.002 | 564 | 0 | 0 | 0 |
| monepantel sulphone | fat | 0.005 | 7 | 564 | 0 | 0 | 0 |
| morantel | liver | 0.001 | 2 | 563 | 0 | 0 | 0 |
| moxidectin | fat | 0.005 | 1 | 564 | 30 | 0 | 0 |
| nitroxynil | liver | 0.012 | 1 | 563 | 0 | 0 | 0 |
| oxfendazole (fenbendazole sulfoxide) | liver | 0.001 | 3 | 563 | 3 | 0 | 0 |
| oxibendazole | liver | 0.001 | not set | 563 | 0 | 0 | 0 |
| oxyclozanide | liver | 0.005 | 2 | 563 | 0 | 0 | 0 |
| praziquantel | fat | 0.005 | not set | 564 | 0 | 0 | 0 |
| thiabendazole | liver | 0.006 | 0.2 | 563 | 0 | 0 | 0 |
| triclabendazole | liver | 0.05 | 2 | 566 | 0 | 0 | 0 |

**Table 2: Antibiotics**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| AHD | retina | 0.002 | not defined | 52 | 0 | – | – |
| amoxicillin | kidney | 0.01 | 0.01 | 972 | 0 | 0 | 0 |
| AMOZ | retina | 0.002 | not defined | 52 | 0 | – | – |
| ampicillin | kidney | 0.01 | not set | 972 | 0 | 0 | 0 |
| AOZ | retina | 0.002 | not defined | 52 | 0 | – | – |
| apramycin | kidney | 0.5 | 2 | 972 | 0 | 0 | 0 |
| avilamycin | kidney | 0.1 | not set | 972 | 0 | 0 | 0 |
| benzyl G penicillin | kidney | 0.01 | 0.06 | 972 | 0 | 0 | 0 |
| ceftiofur (desfuroylceftiofur) | kidney | 0.2 | 2 | 972 | 0 | 0 | 0 |
| cefuroxime | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| cephalonium | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| chloramphenicol | muscle | 0.00027 | not set | 433 | 0 | 0 | 0 |
| chlortetracycline | kidney | 0.01 | 0.6 | 972 | 4 | 0 | 1 |
| ciprofloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| cloxacillin | kidney | 0.05 | not set | 972 | 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 | 972 | 0 | 0 | 0 |
| doxycycline | kidney | 0.01 | not set | 972 | 0 | 0 | 0 |
| enrofloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| erythromycin | kidney | 0.1 | 0.3 | 972 | 0 | 0 | 0 |
| florfenicol | muscle | 0.003 | 0.3 | 433 | 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 | 972 | 0 | 0 | 0 |
| levofloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| lincomycin | kidney | 0.1 | 0.2 | 972 | 0 | 0 | 0 |
| lomefloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| marbofloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| moxifloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| nalidixic acid | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| neomycin | kidney | 0.1 | 10 | 972 | 0 | 0 | 0 |
| norfloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| oleandomycin | kidney | 0.2 | 0.1 | 972 | 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 | 972 | 4 | 0 | 0 |
| sarafloxacin | kidney | 0.005 | not set | 50 | 0 | 0 | 0 |
| SEM | retina | 0.002 | not defined | 52 | 0 | – | – |
| streptomycin | kidney | 0.1 | 0.3 | 972 | 0 | 0 | 0 |
| sulfachloropyridazine | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfadiazine | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| sulfadimethoxine | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| sulfadoxine | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| sulfafurazole | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfamerazine | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfamethoxazole | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfamethoxypyridazine | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfapyridine | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfaquinoxaline | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfathiazole | kidney | 0.05 | not set | 972 | 0 | 0 | 0 |
| sulfatroxazole | kidney | 0.05 | 0.1 | 972 | 0 | 0 | 0 |
| tetracycline | kidney | 0.01 | not set | 972 | 0 | 0 | 1 |
| thiamphenicol | muscle | 0.0029 | not set | 433 | 0 | 0 | 0 |
| tilmicosin | kidney | 0.2 | 1 | 972 | 0 | 0 | 0 |
| trimethoprim | kidney | 0.05 | 0.05 | 972 | 0 | 0 | 0 |
| tulathromycin | kidney | 0.3 | 1 | 972 | 0 | 0 | 0 |
| tylosin | kidney | 0.1 | 0.1 | 972 | 0 | 0 | 0 |
| virginiamycin | kidney | 0.1 | 0.2 | 972 | 0 | 0 | 0 |

**Table 3: Anticoccidials**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| amprolium | liver | 0.01 | not set | 565 | 0 | 0 | 0 |
| decoquinate | liver | 0.002 | not set | 565 | 0 | 0 | 0 |
| diclazuril | liver | 0.01 | not set | 565 | 0 | 0 | 0 |
| halofuginone | liver | 0.01 | 0.03 | 565 | 0 | 0 | 0 |
| lasalocid | liver | 0.01 | 0.7 | 565 | 1 | 0 | 1 |
| maduramicin | liver | 0.002 | not set | 565 | 0 | 0 | 0 |
| monensin | liver | 0.01 | 0.05 | 565 | 30 | 3 | 0 |
| narasin | liver | 0.01 | 0.05 | 565 | 0 | 0 | 0 |
| nicarbazin (4,4'-dinitrocarbanilide) | liver | 0.01 | 0.01 | 565 | 0 | 0 | 0 |
| salinomycin | liver | 0.002 | 0.5 | 565 | 0 | 0 | 0 |
| semduramycin | liver | 0.002 | not set | 565 | 0 | 0 | 0 |
| toltrazuril | liver | 0.01 | 2 | 565 | 0 | 0 | 0 |

**Table 4: Contaminants**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| aldrin and dieldrin (HHDN+HEOD) | fat | 0.02 | 0.2 | 1336 | 2 | 0 | 0 |
| arochlor 1254 | fat | 0.03 | 0.2 | 1336 | 0 | 0 | 0 |
| arochlor 1260 | fat | 0.03 | 0.2 | 1336 | 0 | 0 | 0 |
| chlordane | fat | 0.02 | 0.2 | 1336 | 1 | 0 | 0 |
| DDT | fat | 0.05 | 5 | 1336 | 7 | 0 | 0 |
| endosulfan | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| endrin | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | fat | 0.02 | 1 | 1336 | 0 | 0 | 0 |
| HCH (BHC) | fat | 0.02 | 0.3 | 1336 | 0 | 0 | 0 |
| heptachlor | fat | 0.02 | 0.2 | 1336 | 0 | 1 | 0 |
| lindane (gamma-HCH) | fat | 0.01 | 2 | 1336 | 0 | 0 | 0 |
| mirex | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| pentachlorobenzene | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |

**Table 5: Fungicides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| amisulbrom | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| azoxystrobin | fat | 0.01 | 0.02 | 476 | 0 | 0 | 0 |
| bixafen | fat | 0.02 | 0.2 | 1336 | 0 | 0 | 0 |
| boscalid | fat | 0.01 | 0.3 | 1336 | 0 | 0 | 0 |
| carbendazim | fat | 0.01 | 0.2 | 1336 | 0 | 0 | 0 |
| cyproconazole | fat | 0.02 | 0.03 | 1336 | 0 | 0 | 0 |
| difenoconazole | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| epoxiconazole | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| fenpyrazamine | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| fludioxonil | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| fluopicolide | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| fluopyram | fat | 0.01 | 0.1 | 1336 | 0 | 0 | 0 |
| fluquinconazole | fat | 0.01 | 0.5 | 1336 | 0 | 0 | 0 |
| flutriafol | fat | 0.02 | 0.5 | 1336 | 0 | 0 | 0 |
| fluxapyroxad | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| imazalil | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| ipconazole | kidney | 0.02 | 0.01 | 533 | 0 | 0 | 0 |
| isopyrazam | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| mandestrobin | fat | 0.01 | 0.02 | 1336 | 0 | 0 | 0 |
| procymidone | fat | 0.02 | 0.2 | 1336 | 0 | 0 | 0 |
| propamocarb | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| propiconazole | fat | 0.02 | 0.1 | 1336 | 0 | 0 | 0 |
| prothioconazole | fat | 0.02 | 0.02 | 1336 | 0 | 0 | 0 |
| pydiflumetofen | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| pyraclostrobin | fat | 0.01 | 0.05 | 476 | 0 | 0 | 0 |
| pyrimethanil | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| pyriofenone | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| quinoxyfen | fat | 0.01 | 0.1 | 1336 | 0 | 0 | 0 |
| quintozene | fat | 0.02 | 0.2 | 1336 | 0 | 0 | 0 |
| spiroxamine | fat | 0.01 | 0.05 | 476 | 0 | 0 | 0 |
| tebuconazole | fat | 0.01 | 0.1 | 1336 | 0 | 0 | 0 |
| trifloxystrobin | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |

**Table 6: Herbicides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2,2-DPA (2,2-dichloropropionic acid) | kidney | 0.3 | 0.2 | 533 | 0 | 0 | 0 |
| 2,4-D | kidney | 0.03 | 2 | 533 | 0 | 0 | 0 |
| amicarbazone | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| amitrole | kidney | 0.01 | 0.01 | 533 | 0 | 0 | 0 |
| atrazine | kidney | 0.015 | 0.1 | 533 | 0 | 0 | 0 |
| bromacil | kidney | 0.015 | 0.04 | 533 | 0 | 0 | 0 |
| bromoxynil | kidney | 0.05 | 3 | 533 | 2 | 0 | 0 |
| carfentrazone-ethyl | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| chlormequat | kidney | 0.01 | not set | 533 | 0 | 0 | 0 |
| chlorpropham | kidney | 0.01 | not set | 533 | 0 | 0 | 0 |
| chlorsulfuron | kidney | 0.025 | 0.05 | 533 | 0 | 0 | 0 |
| chlorthal-dimethyl | kidney | 0.015 | 0.05 | 533 | 0 | 0 | 0 |
| clethodim (parent only) | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| clodinafop-propargyl | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| clopyralid | kidney | 0.34 | 5 | 533 | 0 | 0 | 0 |
| cloquintocet | fat | 0.01 | 0.1 | 1336 | 0 | 0 | 0 |
| cyanazine | kidney | 0.02 | not set | 533 | 0 | 0 | 0 |
| dicamba | kidney | 1.3 | 0.05 | 533 | 0 | 0 | 0 |
| dichlobenil | kidney | 0.01 | not set | 533 | 0 | 0 | 0 |
| dichlorprop-P | kidney | 0.025 | 0.05 | 533 | 0 | 0 | 0 |
| diclofop-methyl | kidney | 0.01 | 0.05 | 533 | 0 | 0 | 0 |
| diflufenican | kidney | 0.02 | 0.1 | 533 | 0 | 0 | 0 |
| diquat | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| diuron | kidney | 0.02 | 3 | 533 | 0 | 0 | 0 |
| ethofumesate | fat | 0.02 | 0.5 | 1336 | 0 | 0 | 0 |
| kidney | 0.05 | 0.5 | 533 | 0 | 0 | 0 |
| fenoxaprop-ethyl | kidney | 0.015 | 0.2 | 533 | 0 | 0 | 0 |
| flamprop-M-methyl | kidney | 0.01 | 0.01 | 533 | 0 | 0 | 0 |
| florpyrauxifen-benzyl | fat | 0.01 | 0.02 | 476 | 0 | 0 | 0 |
| fluazifop-p-butyl | kidney | 0.025 | 0.05 | 533 | 0 | 0 | 0 |
| flumetsulam | kidney | 0.01 | 0.3 | 533 | 0 | 0 | 0 |
| glufosinate | kidney | 0.01 | 5 | 533 | 0 | 0 | 0 |
| glyphosate | kidney | 0.01 | 2 | 533 | 63 | 0 | 0 |
| haloxyfop | kidney | 0.01 | 0.5 | 533 | 2 | 0 | 0 |
| imazamox | kidney | 0.025 | 0.05 | 533 | 0 | 0 | 0 |
| imazapic | kidney | 0.01 | 0.05 | 533 | 0 | 0 | 0 |
| imazapyr | kidney | 0.015 | 0.05 | 533 | 0 | 0 | 0 |
| imazaquin | kidney | 0.015 | not set | 533 | 0 | 0 | 0 |
| imazethapyr | kidney | 0.02 | 0.1 | 533 | 0 | 0 | 0 |
| indaziflam | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| iodosulfuron-methyl | kidney | 0.015 | 0.01 | 533 | 0 | 0 | 0 |
| ioxynil | kidney | 0.02 | not set | 533 | 0 | 0 | 0 |
| isoxaben | kidney | 0.02 | 0.01 | 533 | 0 | 0 | 0 |
| linuron | kidney | 0.015 | 1 | 533 | 0 | 0 | 0 |
| MCPA | kidney | 0.015 | 0.05 | 533 | 3 | 1 | 2 |
| metamitron | fat | 0.01 | 0.05 | 476 | 0 | 0 | 0 |
| metazachlor | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| methabenzthiazuron | kidney | 0.01 | not set | 533 | 0 | 0 | 0 |
| metolachlor | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| metosulam | kidney | 0.02 | 0.01 | 533 | 0 | 0 | 0 |
| metribuzin | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| metsulfuron-methyl | kidney | 0.02 | 0.1 | 533 | 0 | 0 | 0 |
| napropamide | kidney | 0.02 | 0.8 | 533 | 0 | 0 | 0 |
| norflurazon | kidney | 0.015 | not set | 533 | 0 | 0 | 0 |
| oryzalin | kidney | 0.04 | not set | 533 | 0 | 0 | 0 |
| paraquat | kidney | 0.02 | 0.5 | 533 | 0 | 0 | 0 |
| pendimethalin | kidney | 0.04 | 0.01 | 533 | 0 | 0 | 0 |
| picloram | kidney | 0.04 | 5 | 533 | 0 | 0 | 0 |
| propachlor | fat | 0.02 | 0.02 | 1336 | 0 | 0 | 0 |
| kidney | 0.015 | 0.1 | 533 | 0 | 0 | 0 |
| propyzamide | kidney | 0.015 | 0.2 | 533 | 0 | 0 | 0 |
| pyrasulfotole | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| pyroxsulam | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| quizalofop-ethyl | kidney | 0.01 | 0.2 | 533 | 0 | 0 | 0 |
| quizalofop-P-tefuryl | kidney | 0.01 | 0.2 | 533 | 0 | 0 | 0 |
| saflufenacil | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| sethoxydim | kidney | 0.01 | 0.05 | 533 | 0 | 0 | 0 |
| simazine | kidney | 0.02 | 0.05 | 533 | 0 | 0 | 0 |
| topramezone | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| tralkoxydim | kidney | 0.13 | not set | 533 | 0 | 0 | 0 |
| triasulfuron | kidney | 0.03 | 0.05 | 533 | 0 | 0 | 0 |
| triclopyr | kidney | 0.04 | 5 | 533 | 0 | 0 | 0 |
| trifluralin | kidney | 0.01 | 0.05 | 533 | 0 | 0 | 0 |

**Table 7: Hormones**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 16-hydroxystanozolol | urine | 0.001 | not defined | 436 | 0 | – | – |
| betamethasone | liver | 0.001 | not set | 30 | 0 | 0 | 0 |
| boldenone 17-alpha | urine | 0.001 | not defined | 436 | 0 | – | – |
| boldenone 17-beta | urine | 0.001 | not defined | 436 | 0 | – | – |
| dexamethasone | liver | 0.001 | 0.1 | 30 | 0 | 0 | 0 |
| dienoestrol | liver | 0.0002 | not set | 434 | 0 | 0 | 0 |
| diethylstilboestrol | liver | 0.0002 | not set | 434 | 0 | 0 | 0 |
| flumethasone | liver | 0.001 | not set | 30 | 0 | 0 | 0 |
| hexoestrol | liver | 0.0002 | not set | 434 | 0 | 0 | 0 |
| methandriol | urine | 0.005 | not defined | 436 | 0 | – | – |
| methylprednisolone | liver | 0.001 | not set | 30 | 0 | 0 | 0 |
| nortestosterone 17-alpha | urine | 0.001 | not defined | 436 | 11 | – | – |
| nortestosterone 17-beta | urine | 0.001 | not defined | 436 | 2 | – | – |
| stanozolol | urine | 0.001 | not defined | 436 | 0 | – | – |
| trenbolone | liver | 0.0005 | 0.01 | 434 | 1 | 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 | 434 | 0 | 0 | 0 |

**Table 8: Insecticides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| acetamiprid | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| afidopyropen | fat | 0.012 | 0.1 | 476 | 0 | 0 | 0 |
| bifenthrin | fat | 0.02 | 2 | 1336 | 1 | 0 | 0 |
| bioresmethrin | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| carbaryl | fat | 0.01 | 0.07 | 1336 | 0 | 0 | 0 |
| chlorantraniliprole | fat | 0.01 | 0.02 | 1336 | 0 | 0 | 0 |
| chlorfenapyr | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| chlorfenvinphos (sum of isomers) | fat | 0.02 | 0.2 | 1336 | 0 | 0 | 0 |
| chlorfluazuron | fat | 0.01 | not set | 332 | 0 | 0 | 0 |
| chlorpyrifos | fat | 0.01 | 0.5 | 1336 | 0 | 0 | 0 |
| chlorpyrifos-methyl | fat | 0.01 | 0.05 | 1336 | 1 | 1 | 0 |
| clothianidin | fat | 0.01 | 0.02 | 1336 | 0 | 0 | 0 |
| coumaphos | fat | 0.02 | 0.02 | 1336 | 0 | 0 | 0 |
| cyantraniliprole | fat | 0.01 | 0.01 | 1336 | 0 | 0 | 0 |
| cyclaniliprole | fat | 0.01 | 0.01 | 476 | 0 | 0 | 0 |
| cyfluthrin (sum of isomers) | fat | 0.02 | 0.5 | 1336 | 0 | 0 | 0 |
| cyhalothrin (sum of isomers) | fat | 0.02 | 0.5 | 1336 | 0 | 0 | 0 |
| cypermethrin (sum of isomers) | fat | 0.02 | 0.5 | 1336 | 1 | 0 | 0 |
| cyromazine | kidney | 0.01 | 0.05 | 330 | 0 | 0 | 0 |
| deltamethrin | fat | 0.02 | 0.5 | 1336 | 1 | 0 | 0 |
| diafenthiuron | fat | 0.01 | 0.02 | 1336 | 0 | 0 | 0 |
| diazinon | fat | 0.02 | 0.7 | 1336 | 4 | 0 | 0 |
| dichlorvos | fat | 0.02 | 0.01 | 1336 | 0 | 0 | 0 |
| dicofol | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| dicyclanil | kidney | 0.01 | not set | 330 | 0 | 0 | 0 |
| diflubenzuron | fat | 0.01 | 0.02 | 332 | 0 | 0 | 0 |
| dimethoate | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| dinotefuran | fat | 0.03 | 0.02 | 1336 | 0 | 0 | 0 |
| esfenvalerate | fat | 0.02 | 1 | 1336 | 0 | 0 | 0 |
| ethion | fat | 0.02 | 2.5 | 1336 | 1 | 0 | 0 |
| famphur | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| famphur oxygen analogue | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| fenitrothion | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| fenthion | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| fenvalerate (sum of isomers) | fat | 0.02 | 1 | 1336 | 0 | 0 | 0 |
| fipronil | fat | 0.02 | 0.1 | 1336 | 0 | 0 | 0 |
| flonicamid | fat | 0.01 | 0.02 | 1336 | 0 | 0 | 0 |
| fluazuron | fat | 0.01 | 7 | 332 | 16 | 0 | 0 |
| flubendiamide | fat | 0.01 | 0.05 | 1336 | 0 | 1 | 0 |
| flumethrin | fat | 0.02 | 0.2 | 1336 | 0 | 0 | 0 |
| flupyradifurone | fat | 0.01 | not set | 476 | 0 | 0 | 0 |
| imidacloprid | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| indoxacarb | fat | 0.02 | 3 | 1336 | 0 | 0 | 0 |
| malathion (maldison) | fat | 0.01 | 1 | 1336 | 0 | 0 | 0 |
| melamine | kidney | 0.01 | no limit | 330 | 0 | 0 | 0 |
| metaflumizone | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| methidathion | fat | 0.02 | 0.5 | 1336 | 0 | 0 | 0 |
| methoxychlor | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| mevinphos | fat | 0.01 | 0.05 | 1336 | 0 | 0 | 0 |
| novaluron | fat | 0.01 | 0.1 | 332 | 0 | 0 | 0 |
| omethoate | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| parathion-methyl | fat | 0.02 | not set | 1336 | 0 | 0 | 0 |
| permethrin (sum of isomers) | fat | 0.02 | 1 | 1336 | 4 | 0 | 0 |
| phosmet | fat | 0.02 | 1 | 1336 | 0 | 0 | 0 |
| pirimiphos-methyl | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| prothiofos | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| pyraclofos | fat | 0.02 | 0.05 | 1336 | 0 | 0 | 0 |
| spinetoram | fat | 0.005 | 2 | 564 | 0 | 0 | 0 |
| spinosad | fat | 0.005 | 2 | 564 | 58 | 0 | 0 |
| spirotetramat | fat | 0.02 | 0.02 | 1336 | 0 | 0 | 0 |
| sulfoxaflor | fat | 0.01 | 0.2 | 1336 | 0 | 0 | 0 |
| tau-fluvalinate | fat | 0.01 | not set | 1336 | 0 | 0 | 0 |
| temephos | fat | 0.02 | 5 | 1336 | 0 | 0 | 0 |
| triflumuron | fat | 0.01 | 0.05 | 332 | 0 | 0 | 0 |

**Table 9: Metals**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| antimony | liver | 0.01 | no limit | 684 | 1 | 0 | 0 |
| arsenic (total) | liver | 0.05 | no limit | 684 | 9 | 0 | 0 |
| cadmium | liver | 0.01 | 1.25 | 684 | 559 | 3 | 0 |
| lead | liver | 0.01 | 0.5 | 684 | 258 | 1 | 1 |
| mercury (total) | liver | 0.01 | no limit | 684 | 7 | 0 | 0 |

**Table 10: Mycotoxins**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| taleranol (beta-zearalanol) | liver | 0.002 | no limit | 434 | 0 | 0 | 0 |
| zearalanone | liver | 0.002 | no limit | 434 | 0 | 0 | 0 |
| zearalenol alpha | liver | 0.002 | no limit | 434 | 12 | 0 | 0 |
| zearalenol beta | liver | 0.002 | no limit | 434 | 17 | 0 | 0 |
| zearalenone | liver | 0.002 | no limit | 434 | 1 | 0 | 0 |

**Table 11: Other Veterinary Drugs**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| cimaterol | liver | 0.0003 | not set | 434 | 0 | 0 | 0 |
| clenbuterol | liver | 0.0003 | not set | 434 | 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 | 434 | 0 | 0 | 0 |
| meloxicam | kidney | 0.005 | 0.2 | 330 | 0 | 0 | 0 |
| oxyphenbutazone | kidney | 0.005 | not set | 330 | 0 | 0 | 0 |
| phenylbutazone | kidney | 0.005 | not set | 330 | 0 | 0 | 0 |
| ractopamine | liver | 0.0003 | not set | 434 | 0 | 0 | 0 |
| salbutamol | liver | 0.001 | not set | 434 | 0 | 0 | 0 |
| tolfenamic acid | kidney | 0.005 | 0.01 | 330 | 0 | 0 | 0 |
| zilpaterol | liver | 0.0003 | not set | 434 | 0 | 0 | 0 |