

**Honey residue testing annual datasets 2022-23**

National Residue Survey (NRS), Department of Agriculture, Fisheries and Forestry **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: ANTIBIOTICS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **>LOR to  ≤ ½ MRL** | **> ½ MRL to ≤MRL** | **>MRL** |
| AHD | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| amoxicillin | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| AMOZ | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| ampicillin | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| AOZ | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| apramycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| benzyl G penicillin | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| ceftiofur | Honey | 0.1 | not set | 50 | 0 | 0 | 0 |
| cefuroxime | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| cephalonium | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| chloramphenicol | Honey | 0.0003 | not set | 7 | 0 | 0 | 0 |
| chlortetracycline | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| cloxacillin | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| dihydrostreptomycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| doxycycline | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| erythromycin | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| florfenicol | Honey | 0.003 | not set | 7 | 0 | 0 | 0 |
| gentamycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| lincomycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| neomycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| norfloxacin | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| oleandomycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| oxytetracycline | Honey | 0.01 | 0.3 | 50 | 1 | 0 | 0 |
| SEM | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| streptomycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| sulfachloropyridazine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadiazine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadimethoxine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadoxine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfafurazole | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamerazine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamethoxazole | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamethoxypyridazine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfapyridine | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfaquinoxaline | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfathiazole | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| sulfatroxazole | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| tetracycline | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| thiamphenicol | Honey | 0.0011 | not set | 7 | 0 | 0 | 0 |
| tilmicosin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |
| trimethoprim | Honey | 0.01 | not set | 50 | 0 | 0 | 0 |
| tulathromycin | Honey | 0.1 | not set | 50 | 0 | 0 | 0 |
| tylosin | Honey | 0.02 | not set | 50 | 0 | 0 | 0 |
| virginiamycin | Honey | 0.05 | not set | 50 | 0 | 0 | 0 |

\*In some instances, tetracycline may be present as an impurity in a chlortetracycline or oxytetracycline product and is not considered to be a violative residue

**Table 2: CONTAMINANTS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **>LOR to  ≤ ½ MRL** | **> ½ MRL to ≤MRL** | **>MRL** |
| aldrin and dieldrin (HHDN+HEOD) | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| arochlor 1254 | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| arochlor 1260 | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| chlordane | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| DDT | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| endosulfan | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| endrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| HCH (BHC) | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| heptachlor | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| lindane (gamma-HCH) | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| mirex | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| pentachlorobenzene | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |

**Table 3: FUNGICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **>LOR to  ≤ ½ MRL** | **> 1/2 MRL to ≤MRL** | **>MRL** |
| boscalid | Honey | 0.01 | 0.5 | 36 | 0 | 0 | 0 |
| carbendazim | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| cyproconazole | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| fluquinconazole | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| flutriafol | Honey | 0.01 | 0.5 | 36 | 0 | 0 | 0 |
| fluxapyroxad | Honey | 0.01 | 0.1 | 36 | 0 | 0 | 0 |
| procymidone | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| propiconazole | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| prothioconazole | Honey | 0.02 | not set | 36 | 0 | 0 | 0 |
| quintozene | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |

**Table 4: HERBICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **>LOR to  ≤ ½ MRL** | **>1/2MRL to ≤MRL** | **>MRL** |
| ethofumesate | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| metolachlor | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| propachlor | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| pyrasulfotole | Honey | 0.02 | not set | 36 | 0 | 0 | 0 |

**Table 5: INSECTICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **> LOR to  ≤ ½ MRL** | **>1/2MRL to ≤MRL** | **>MRL** |
| 2,4-dimethylphenylformamide | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| acetamiprid | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| amitraz | Honey | 0.01 | 0.2 | 36 | 0 | 0 | 0 |
| bifenthrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| bioresmethrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| carbaryl | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| chlorantraniliprole | Honey | 0.01 | 0.1 | 36 | 0 | 0 | 0 |
| chlorfenapyr | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| chlorfenvinphos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| chlorpyrifos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| chlorpyrifos-methyl | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| clothianidin | Honey | 0.01 | 0.1 | 36 | 0 | 0 | 0 |
| coumaphos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| cyantraniliprole | Honey | 0.01 | 0.05 | 36 | 0 | 0 | 0 |
| cyfluthrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| cyhalothrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| cypermethrin | Honey | 0.01 | 0.01 | 36 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| deltamethrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| diazinon | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| dichlorvos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| dicofol | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| dimethoate | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| ethion | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| famphur | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| fenitrothion | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| fenthion | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| fenvalerate | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| fipronil | Honey | 0.01 | 0.01 | 36 | 0 | 0 | 0 |
| flubendiamide | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| flumethrin | Honey | 0.005 | 0.005 | 36 | 0 | 0 | 0 |
| fluvalinate | Honey | 0.01 | 0.01 | 36 | 0 | 0 | 0 |
| imidacloprid | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| indoxacarb | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| malathion | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| methidathion | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| methoxychlor | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| omethoate | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| paradichlorobenzene | Honey | 0.001 | not set | 54 | 0 | 0 | 0 |
| parathion-methyl | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| permethrin | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| phosmet | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| pirimiphos-methyl | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| prothiofos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| pyraclofos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| spirotetramat | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| sulfoxaflor | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| temephos | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| thiacloprid | Honey | 0.01 | not set | 36 | 0 | 0 | 0 |
| thiamethoxam | Honey | 0.01 | 0.5 | 36 | 0 | 0 | 0 |

**Table 6: METALS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL  (mg/kg)** | **Number of samples tested** | **>LOR to  ≤ ½ MRL** | **> 1/2 MRL to ≤MRL** | **>MRL** |
| aluminium | Honey | 0.5 | no limit | 53 | 45 | 0 | 0 |
| lead | Honey | 0.01 | no limit | 53 | 8 | 0 | 0 |
| selenium | Honey | 0.05 | no limit | 53 | 0 | 0 | 0 |
| zinc | Honey | 0.05 | no limit | 53 | 53 | 0 | 0 |

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