



Honey residue testing annual datasets 2021-22

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.

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Table 1: ANTIBIOTICS

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | Number of samples tested | >LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to \leq MRL | >MRL |
|--------------------------------|--------|-------------|-------------|--------------------------|--------------------------------|-----------------------------------|------|
| AHD | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| amoxicillin | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| AMOZ | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| ampicillin | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| AOZ | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| apramycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| benzyl G penicillin | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| ceftiofur (desfuroylceftiofur) | Honey | 0.1 | not set | 43 | 0 | 0 | 0 |
| cefuroxime | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| cephalonium | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| chloramphenicol | Honey | 0.0003 | not set | 7 | 0 | 0 | 0 |
| chlortetracycline | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |

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|----------------------------------|-------|--------|---------|----|---|---|---|
| cloxacillin | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| dihydrostreptomycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| doxycycline | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| erythromycin | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| florfenicol | Honey | 0.003 | not set | 7 | 0 | 0 | 0 |
| gentamycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| lincomycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| neomycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| norfloxacin | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| oleandomycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| oxytetracycline | Honey | 0.01 | 0.3 | 43 | 0 | 0 | 0 |
| SEM | Honey | 0.0005 | not set | 7 | 0 | 0 | 0 |
| streptomycin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| sulfachloropyridazine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfadiazine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfadimethoxine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfadoxine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfafurazole | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfamerazine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfamethoxazole | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfamethoxypyridazine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfapyridine | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfaquinoxaline | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfathiazole | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| sulfatroxazole | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| tetracycline | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| thiamphenicol | Honey | 0.0011 | not set | 7 | 0 | 0 | 0 |
| tilmicosin | Honey | 0.05 | not set | 43 | 0 | 0 | 0 |
| trimethoprim | Honey | 0.01 | not set | 43 | 0 | 0 | 0 |
| tulathromycin | Honey | 0.1 | not set | 43 | 0 | 0 | 0 |
| tylosin | Honey | 0.02 | not set | 43 | 0 | 0 | 0 |
| virginiamycin | Honey | 0.05 | not set | 43 | 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 ≤½MRL | >½MRL to ≤MRL | >MRL |
|---------------------------------|--------|-------------|-------------|--------------------------|---------------|---------------|------|
| aldrin and dieldrin (HHDN+HEOD) | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| arochlor 1254 | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| arochlor 1260 | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

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|---------------------|-------|------|---------|----|---|---|---|
| chlordane | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| DDT | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| endosulfan | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| endrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| HCB | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| HCH | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| heptachlor | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| lindane (gamma-HCH) | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| mirex | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| pentachlorobenzene | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

Table 3: FUNGICIDES

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | Number of samples tested | >LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to \leq MRL | >MRL |
|-----------------|--------|-------------|-------------|--------------------------|--------------------------------|-----------------------------------|------|
| boscalid | Honey | 0.01 | 0.5 | 28 | 0 | 0 | 0 |
| carbendazim | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| cyproconazole | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| fluquinconazole | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| flutriafol | Honey | 0.01 | 0.5 | 28 | 0 | 0 | 0 |
| fluxapyroxad | Honey | 0.01 | 0.1 | 28 | 0 | 0 | 0 |
| procymidone | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| propiconazole | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| prothioconazole | Honey | 0.02 | not set | 26 | 0 | 0 | 0 |
| quintozene | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

Table 4: HERBICIDES

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | Number of samples tested | >LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to \leq MRL | >MRL |
|---------------|--------|-------------|-------------|--------------------------|--------------------------------|-----------------------------------|------|
| ethofumesate | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| metolachlor | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| propachlor | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| pyrasulfotole | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

Table 5: INSECTICIDES

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | Number of samples tested | >LOR to $\leq \frac{1}{2}$ MRL | > $\frac{1}{2}$ MRL to \leq MRL | >MRL |
|-----------------------------|--------|-------------|-------------|--------------------------|--------------------------------|-----------------------------------|------|
| 2,4-dimethylphenylformamide | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| acetamiprid | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| amitraz | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

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|---------------------|-------|-------|---------|----|---|---|---|
| bifenthrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| bioresmethrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| carbaryl | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| chlorantraniliprole | Honey | 0.01 | 0.1 | 28 | 0 | 0 | 0 |
| chlorfenapyr | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| chlorfenvinphos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| chlorpyrifos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| chlorpyrifos-methyl | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| clothianidin | Honey | 0.01 | 0.1 | 28 | 0 | 0 | 0 |
| coumaphos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| cyantraniliprole | Honey | 0.01 | 0.05 | 28 | 0 | 0 | 0 |
| cyfluthrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| cyhalothrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| cypermethrin | Honey | 0.01 | 0.01 | 28 | 0 | 0 | 0 |
| deltamethrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| diazinon | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| dichlorvos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| dicofol | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| dimethoate | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| ethion | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| famphur | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| fenitrothion | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| fenthion | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| fenvalerate | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| fipronil | Honey | 0.01 | 0.01 | 28 | 0 | 0 | 0 |
| flubendiamide | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| flumethrin | Honey | 0.005 | 0.005 | 28 | 0 | 0 | 0 |
| fluvalinate | Honey | 0.01 | 0.01 | 28 | 0 | 0 | 0 |
| imidacloprid | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| indoxacarb | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| malathion | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| methidathion | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| methoxychlor | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| omethoate | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| paradichlorobenzene | Honey | 0.001 | not set | 47 | 0 | 0 | 0 |
| parathion-methyl | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| permethrin | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| phosmet | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| pirimiphos-methyl | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| prothiofos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| pyraclofos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| spirotetramat | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |

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|--------------|-------|------|---------|----|---|---|---|
| sulfoxaflor | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| temephos | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| thiacloprid | Honey | 0.01 | not set | 28 | 0 | 0 | 0 |
| thiamethoxam | Honey | 0.01 | 0.5 | 28 | 0 | 0 | 0 |

Table 6: METALS

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | Number of samples tested | >LOR to ≤½MRL | >½MRL to ≤MRL | >MRL |
|-----------|--------|-------------|-------------|--------------------------|---------------|---------------|------|
| aluminium | Honey | 0.5 | no limit | 53 | 38 | 0 | 0 |
| lead | Honey | 0.01 | no limit | 53 | 22 | 0 | 0 |
| selenium | Honey | 0.05 | no limit | 53 | 0 | 0 | 0 |
| zinc | Honey | 0.05 | no limit | 53 | 53 | 0 | 0 |