



Emu 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	not set	1	0	0	0
derquantel	fat	0.001	not set	1	0	0	0
doramectin	fat	0.005	not set	1	0	0	0
emamectin	fat	0.002	0.05	1	0	0	0
eprinomectin B1a	fat	0.005	not set	1	0	0	0
ivermectin H2B1a	fat	0.005	not set	1	0	0	0
milbemectin	fat	0.01	not set	1	0	0	0
monepantel sulphone	fat	0.005	not set	1	0	0	0
moxidectin	fat	0.005	not set	1	0	0	0
praziquantel	fat	0.005	not set	1	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
amoxicillin	kidney	0.01	0.01	2	0	0	0
ampicillin	kidney	0.01	not set	2	0	0	0
apramycin	kidney	0.25	1	2	0	0	0
avilamycin	kidney	0.1	0.05	2	0	0	0
benzyl G penicillin	kidney	0.01	not set	2	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.2	not set	2	0	0	0
cefuroxime	kidney	0.05	not set	2	0	0	0
cephalonium	kidney	0.05	not set	2	0	0	0
chlortetracycline	kidney	0.01	0.6	2	0	0	0
cloxacillin	kidney	0.05	not set	2	0	0	0
dihydrostreptomycin	kidney	0.1	not set	2	0	0	0
dimetridazole	muscle	0.0001	not set	2	0	0	0
doxycycline	kidney	0.01	not set	2	0	0	0
erythromycin	kidney	0.1	0.3	2	0	0	0
gentamycin	kidney	0.1	not set	2	0	0	0
lincomycin	kidney	0.1	0.1	2	0	0	0
metronidazole	muscle	0.0001	not set	2	0	0	0
neomycin	kidney	0.1	10	2	0	0	0
oleandomycin	kidney	0.2	not set	2	0	0	0
oxytetracycline	kidney	0.01	0.6	2	0	0	0
ronidazole	muscle	0.0001	not set	2	0	0	0
streptomycin	kidney	0.1	not set	2	0	0	0
sulfachloropyridazine	kidney	0.05	not set	2	0	0	0
sulfadiazine	kidney	0.05	0.1	2	0	0	0
sulfadimethoxine	kidney	0.05	not set	2	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.05	0.1	2	0	0	0
sulfadoxine	kidney	0.05	not set	2	0	0	0
sulfafurazole	kidney	0.05	not set	2	0	0	0
sulfamerazine	kidney	0.05	not set	2	0	0	0
sulfamethoxazole	kidney	0.05	not set	2	0	0	0
sulfamethoxydiazine (sulfameter)	kidney	0.05	not set	2	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	2	0	0	0
sulfapyridine	kidney	0.05	not set	2	0	0	0
sulfaquinoxaline	kidney	0.05	0.1	2	0	0	0
sulfathiazole	kidney	0.05	not set	2	0	0	0
sulfatroxazole	kidney	0.05	not set	2	0	0	0

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
tetracycline	kidney	0.01	not set	2	0	0	0
tilmicosin	kidney	0.2	not set	2	0	0	0
trimethoprim	kidney	0.05	0.05	2	0	0	0
tulathromycin	kidney	0.3	not set	2	0	0	0
tylosin	kidney	0.1	0.2	2	0	0	0
virginiamycin	kidney	0.005	0.2	2	0	0	0

Table 3: Contaminants

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
aldrin and dieldrin (HHDN+HEOD)	fat	0.02	0.2	1	0	0	0
arochlor 1254	fat	0.03	0.2	1	0	0	0
arochlor 1260	fat	0.03	0.2	1	0	0	0
chlordane	fat	0.02	not set	1	0	0	0
DDT	fat	0.05	5	1	1	0	0
endosulfan	fat	0.02	not set	1	0	0	0
endrin	fat	0.01	not set	1	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	1	0	0	0
HCH (BHC)	fat	0.02	0.3	1	0	0	0
heptachlor	fat	0.02	not set	1	0	0	0
lindane (gamma-HCH)	fat	0.01	0.7	1	0	0	0
mirex	fat	0.02	not set	1	0	0	0
pentachlorobenzene	fat	0.02	not set	1	0	0	0

Table 4: 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
amisulbrom	fat	0.01	not set	1	0	0	0
bixafen	fat	0.02	0.02	1	0	0	0
boscalid	fat	0.01	0.5	1	0	0	0
carbendazim	fat	0.01	0.1	1	0	0	0
cyproconazole	fat	0.02	0.01	1	0	0	0
difenoconazole	fat	0.01	not set	1	0	0	0
fludioxonil	fat	0.01	not set	1	0	0	0
fluopicolide	fat	0.01	not set	1	0	0	0
fluopyram	fat	0.01	not set	1	0	0	0
fluquinconazole	fat	0.01	0.02	1	0	0	0

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
flutriafol	fat	0.02	0.05	1	0	0	0
fluxapyroxad	fat	0.01	0.01	1	0	0	0
imazalil	fat	0.01	not set	1	0	0	0
mandestrobin	fat	0.01	not set	1	0	0	0
procymidone	fat	0.02	0.1	1	0	0	0
propamocarb	fat	0.01	not set	1	0	0	0
propiconazole	fat	0.02	0.1	1	0	0	0
prothioconazole	fat	0.02	0.05	1	0	0	0
pyrimethanil	fat	0.01	not set	1	0	0	0
pyriofenone	fat	0.01	not set	1	0	0	0
quinoxifen	fat	0.01	not set	1	0	0	0
quintozene	fat	0.02	0.1	1	0	0	0
tebuconazole	fat	0.01	not set	1	0	0	0
trifloxystrobin	fat	0.01	not set	1	0	0	0

Table 5: 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
cloquintocet	fat	0.01	not set	1	0	0	0
ethofumesate	fat	0.02	not set	1	0	0	0
indaziflam	fat	0.01	not set	1	0	0	0
metazachlor	fat	0.01	0.05	1	0	0	0
metolachlor	fat	0.02	0.01	1	0	0	0
propachlor	fat	0.02	0.02	1	0	0	0
pyrasulfotole	fat	0.01	0.01	1	0	0	0
pyroxsulam	fat	0.01	not set	1	0	0	0
saflufenacil	fat	0.01	not set	1	0	0	0

Table 6: 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
acetamiprid	fat	0.01	not set	1	0	0	0
bifenthrin	fat	0.02	0.05	1	0	0	0
bioresmethrin	fat	0.02	not set	1	0	0	0
carbaryl	fat	0.01	0.02	1	0	0	0
chlorantraniliprole	fat	0.01	0.01	1	0	0	0
chlorfenapyr	fat	0.02	0.01	1	0	0	0

Emu residue testing annual datasets 2019-20

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
chlorfenvinphos (sum of isomers)	fat	0.02	not set	1	0	0	0
chlorpyrifos	fat	0.01	0.1	1	0	0	0
chlorpyrifos-methyl	fat	0.01	0.05	1	0	0	0
clothianidin	fat	0.01	not set	1	0	0	0
coumaphos	fat	0.02	not set	1	0	0	0
cyantraniliprole	fat	0.01	not set	1	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.01	1	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.02	1	0	0	0
cypermethrin (sum of isomers)	fat	0.02	0.05	1	0	0	0
deltamethrin	fat	0.02	0.01	1	0	0	0
diafenthuron	fat	0.01	0.02	1	0	0	0
diazinon	fat	0.02	0.05	1	0	0	0
dichlorvos	fat	0.02	0.01	1	0	0	0
dicofol	fat	0.01	not set	1	0	0	0
dimethoate	fat	0.02	0.05	1	0	0	0
dinotefuran	fat	0.03	0.02	1	0	0	0
esfenvalerate	fat	0.02	0.05	1	0	0	0
ethion	fat	0.02	not set	1	0	0	0
famphur	fat	0.02	not set	1	0	0	0
famphur oxygen-analogue	fat	0.02	not set	1	0	0	0
fenitrothion	fat	0.02	0.05	1	0	0	0
fenthion	fat	0.02	not set	1	0	0	0
fenvalerate (sum of isomers)	fat	0.02	0.05	1	0	0	0
fipronil	fat	0.02	0.02	1	0	0	0
flonicamid	fat	0.01	not set	1	0	0	0
flubendiamide	fat	0.01	0.01	1	0	0	0
flumethrin	fat	0.02	not set	1	0	0	0
imidacloprid	fat	0.01	0.02	1	0	0	0
indoxacarb	fat	0.02	0.01	1	0	0	0
malathion (maldison)	fat	0.01	1	1	0	0	0
metaflumizone	fat	0.01	not set	1	0	0	0
methidathion	fat	0.02	0.05	1	0	0	0
methoxychlor	fat	0.02	not set	1	0	0	0
mevinphos	fat	0.01	not set	1	0	0	0
omethoate	fat	0.02	0.05	1	0	0	0
parathion-methyl	fat	0.02	not set	1	0	0	0
permethrin (sum of isomers)	fat	0.02	0.1	1	0	0	0

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
phosmet	fat	0.02	not set	1	0	0	0
pirimiphos-methyl	fat	0.02	0.05	1	0	0	0
prothiofos	fat	0.01	not set	1	0	0	0
pyraclofos	fat	0.02	0.05	1	0	0	0
spinetoram	fat	0.005	0.01	1	0	0	0
spinosad	fat	0.005	0.5	1	0	0	0
spirotetramat	fat	0.01	0.02	1	0	0	0
sulfoxaflor	fat	0.01	0.01	1	0	0	0
tau-fluvalinate	fat	0.01	not set	1	0	0	0
temephos	fat	0.02	not set	1	0	0	0

Table 7: Metals

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
antimony	liver	0.01	no limit	2	0	0	0
arsenic (total)	liver	0.05	no limit	2	0	0	0
cadmium	liver	0.01	no limit	2	2	0	0
lead	liver	0.01	0.5	2	2	0	0
mercury (total)	liver	0.01	no limit	2	0	0	0

Table 8: Other Veterinary Drugs

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
cimaterol	liver	0.0003	not set	1	0	0	0
clenbuterol	liver	0.0003	not set	1	0	0	0
mabuterol	liver	0.0003	not set	1	0	0	0
ractopamine	liver	0.0003	not set	1	0	0	0
salbutamol	liver	0.001	not set	1	0	0	0
zilpaterol	liver	0.0003	not set	1	0	0	0