



## Emu Annual Report 2013-2014

Table 1 Anthelmintics, Macrocyclic Lactones

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to $\leq$ MRL	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	Above MRL
abamectin	Fat	0.005	Not Set	1	0	0	0	0
doramectin	Fat	0.005	Not Set	1	0	0	0	0
emamectin	Fat	0.002	Not Set	1	0	0	0	0
eprinomectin B1a	Fat	0.005	Not Set	1	0	0	0	0
ivermectin H2B1a	Fat	0.005	Not Set	1	0	0	0	0
moxidectin	Fat	0.005	Not Set	1	0	0	0	0

Table 2 Anthelmintics ,Other

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to $\leq$ MRL	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	Above MRL
monepantel sulphone	Fat	0.005	Not Set	1	0	0	0	0
praziquantel	Fat	0.005	Not Set	1	0	0	0	0

Table 3 Antibiotics, Aminoglycosides

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to $\leq$ MRL	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	Above MRL
apramycin	Kidney	0.4	1	2	0	0	0	0
dihydrostreptomycin	Kidney	0.1	Not Set	2	0	0	0	0
gentamycin	Kidney	0.1	Not Set	2	0	0	0	0
neomycin	Kidney	0.05	10	2	0	0	0	0
streptomycin	Kidney	0.1	Not Set	2	0	0	0	0

Table 4 Antibiotics, Beta Lactams

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to $\leq$ MRL	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	Above MRL
amoxicillin	Kidney	0.01	0.01	2	0	0	0	0
ampicillin	Kidney	0.01	Not Set	2	0	0	0	0
benzyl G penicillin	Kidney	0.01	Not Set	2	0	0	0	0
cloxacillin	Kidney	0.1	Not Set	2	0	0	0	0

Table 5 Antibiotics, Cephalosporins

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to $\leq$ MRL	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	Above MRL
ceftiofur (desfuroylceftiofur)	Kidney	0.2	Not Set	2	0	0	0	0
cefuroxime	Kidney	0.05	Not Set	2	0	0	0	0
cephalonium	Kidney	0.05	Not Set	2	0	0	0	0

**Table 6 Antibiotics, Macrolides**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
erythromycin	Kidney	0.05	0.3	2	0	0	0	0
lincomycin	Kidney	0.05	0.1	2	0	0	0	0
oleandomycin	Kidney	0.5	Not Set	2	0	0	0	0
tilmicosin	Kidney	0.2	Not Set	2	0	0	0	0
tulathromycin	Kidney	0.3	Not Set	2	0	0	0	0
tylosin	Kidney	0.1	0.2	2	0	0	0	0

**Table 7 Antibiotics, Nitroimidazoles**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
dimetridazole	Muscle	0.0001	Not Set	2	0	0	0	0
HMMNI (as metabolite of ronidazole)	Muscle	0.0001	Not Set	2	0	0	0	0
metronidazole	Muscle	0.0001	Not Set	2	0	0	0	0
ronidazole (parent only)	Muscle	0.0001	Not Set	2	0	0	0	0

**Table 8 Antibiotics, Other**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
avilamycin	Kidney	0.1	0.05	2	0	0	0	0
virginiamycin	Kidney	0.1	0.2	2	0	0	0	0

**Table 9 Antibiotics, Sulfonamides**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
sulfachloropyridazine	Kidney	0.02	Not Set	2	0	0	0	0
sulfadiazine	Kidney	0.02	0.1	2	0	0	0	0
sulfadimethoxine	Kidney	0.02	Not Set	2	0	0	0	0
sulfadimidine (sulfamethazine)	Kidney	0.02	0.1	2	0	0	0	0
sulfadoxine	Kidney	0.02	Not Set	2	0	0	0	0
sulfafurazole	Kidney	0.02	Not Set	2	0	0	0	0
sulfamerazine	Kidney	0.02	Not Set	2	0	0	0	0
sulfamethoxazole	Kidney	0.02	Not Set	2	0	0	0	0
sulfamethoxydiazine (sulfameter)	Kidney	0.02	Not Set	2	0	0	0	0
sulfamethoxypyridazine	Kidney	0.02	Not Set	2	0	0	0	0
sulfapyridine	Kidney	0.02	Not Set	2	0	0	0	0
sulfaquinoxaline	Kidney	0.02	0.1	2	0	0	0	0
sulfathiazole	Kidney	0.02	Not Set	2	0	0	0	0
sulfatroxazole	Kidney	0.02	Not Set	2	0	0	0	0

**Table 10 Antibiotics, Tetracyclines**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
chlortetracycline	Kidney	0.02	0.6	2	0	0	0	0
doxycycline	Kidney	0.05	Not Set	2	0	0	0	0
oxytetracycline	Kidney	0.05	0.6	2	0	0	0	0
tetracycline	Kidney	0.05	Not Set	2	0	0	0	0

**Table 11 Contaminant, Organochlorine Insecticide**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
aldrin and dieldrin (HHDN+HEOD)	Fat	0.02	0.2	1	0	0	0	0
chlordane	Fat	0.02	Not Set	1	0	0	0	0
DDT	Fat	0.05	5	1	0	0	0	0
endrin	Fat	0.01	Not Set	1	0	0	0	0
HCH (or BHC)	Fat	0.02	0.3	1	0	0	0	0
heptachlor	Fat	0.02	Not Set	1	0	0	0	0
lindane (gamma-HCH)	Fat	0.01	0.7	1	0	0	0	0
mirex	Fat	0.02	Not Set	1	0	0	0	0

**Table 12 Contaminant, Persistent Organic Pollutant**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
arochlor 1254	Fat	0.03	0.2	1	0	0	0	0
arochlor 1260	Fat	0.03	0.2	1	0	0	0	0
HCB (hexachlorobenzene)	Fat	0.02	1	1	0	0	0	0
pentachlorobenzene	Fat	0.01	Not Set	1	0	0	0	0

**Table 13 Fungicides**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
boscalid	Fat	0.01	0.5	1	0	0	0	0
prothioconazole	Fat	0.01	0.05	1	0	0	0	0
quintozene	Fat	0.05	Not Set	1	0	0	0	0
cyproconazole	Fat	0.02	0.01	1	0	0	0	0
fluquinconazole	Fat	0.01	0.02	1	0	0	0	0
flutriafol	Fat	0.05	0.05	1	0	0	0	0
procymidone	Fat	0.1	0.1	1	0	0	0	0
propiconazole	Fat	0.05	0.1	1	0	0	0	0

**Table 14 Herbicides**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
pyrasulfotole	Fat	0.01	0.01	1	0	0	0	0
ethofumesate	Fat	0.1	Not Set	1	0	0	0	0
metolachlor	Fat	0.05	0.01	1	0	0	0	0

propachlor	Fat	0.02	0.02	1	0	0	0	0
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**Table 15 Insecticides, Carbamate**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
carbaryl	Fat	0.01	0.5	1	0	0	0	0

**Table 16 Insecticides, Organochlorines**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
dicofol	Fat	0.01	Not Set	1	0	0	0	0
endosulfan	Fat	0.02	Not Set	1	0	0	0	0
methoxychlor	Fat	0.02	Not Set	1	0	0	0	0

**Table 17 Insecticides, Organophosphates**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
chlorfenvinphos (sum E and Z isomers)	Fat	0.05	Not Set	1	0	0	0	0
chlorpyrifos	Fat	0.1	0.1	1	0	0	0	0
chlorpyrifos-methyl	Fat	0.02	0.05	1	0	0	0	0
coumaphos	Fat	0.2	Not Set	1	0	0	0	0
diazinon	Fat	0.05	0.05	1	0	0	0	0
dichlorvos	Fat	0.05	0.05	1	0	0	0	0
dimethoate	Fat	0.05	0.05	1	0	0	0	0
ethion	Fat	0.1	Not Set	1	0	0	0	0
famphur	Fat	0.02	Not Set	1	0	0	0	0
famphur oxygen-analogue	Fat	0.05	Not Set	1	0	0	0	0
fenitrothion	Fat	0.02	0.05	1	0	0	0	0
fenthion	Fat	0.05	0.05	1	0	0	0	0
malathion (maldison)	Fat	0.1	1	1	0	0	0	0
methidathion	Fat	0.1	0.05	1	0	0	0	0
omethoate	Fat	0.05	Not Set	1	0	0	0	0
parathion-methyl	Fat	0.05	Not Set	1	0	0	0	0
phosmet	Fat	0.05	Not Set	1	0	0	0	0
pirimiphos-methyl	Fat	0.05	0.05	1	0	0	0	0
prothiofos	Fat	0.01	Not Set	1	0	0	0	0
pyraclofos	Fat	0.01	Not Set	1	0	0	0	0
temephos	Fat	0.1	Not Set	1	0	0	0	0

**Table 18 Insecticides, Other**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
chlorfenapyr	Fat	0.05	0.01	1	0	0	0	0
fipronil	Fat	0.01	0.02	1	0	0	0	0
flubendiamide	Fat	0.01	0.01	1	0	0	0	0

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
imidacloprid	Fat	0.01	0.02	1	0	0	0	0
indoxacarb	Fat	0.1	0.01	1	0	0	0	0
spinetoram	Fat	0.005	0.01	1	0	0	0	0
spinosad	Fat	0.005	0.5	1	0	0	0	0

**Table 19 Insecticides, Pyrethroid**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
bifenthrin	Fat	0.02	0.05	1	0	0	0	0
bioresmethrin	Fat	0.02	Not Set	1	0	0	0	0
cyfluthrin (sum of isomers)	Fat	0.01	0.01	1	0	0	0	0
cyhalothrin (sum of isomers)	Fat	0.02	0.02	1	0	0	0	0
cypermethrin (sum of isomers)	Fat	0.01	0.05	1	0	0	0	0
deltamethrin	Fat	0.02	0.01	1	0	0	0	0
esfenvalerate	Fat	0.02	0.05	1	0	0	0	0
fenvalerate (sum of isomers)	Fat	0.02	0.05	1	0	0	0	0
flumethrin	Fat	0.02	Not Set	1	0	0	0	0
permethrin (sum of isomers)	Fat	0.02	0.1	1	0	0	0	0
tau-fluvalinate	Fat	0.01	Not Set	1	0	0	0	0

**Table 20 Metals**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
arsenic - Total	Liver	0.05	No Limit	2	0	0	0	n/a
cadmium	Liver	0.01	No Limit	2	2	0	0	n/a
lead	Liver	0.01	0.5	2	2	0	2	0
mercury	Liver	0.01	No Limit	2	0	0	0	n/a

**Table 21 Other Veterinary Drugs, Beta-Agonist**

Chemical	Matrix	LOR (mg/kg)	Australia Std (mg/kg)	Number of Samples Tested	> LOR to ≤ MRL	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	Above MRL
cimaterol	Liver	0.00024	Not Set	1	0	0	0	0
clenbuterol	Liver	0.00015	Not Set	1	0	0	0	0
mabuterol	Liver	0.00015	Not Set	1	0	0	0	0
ractopamine	Liver	0.00015	Not Set	1	0	0	0	0
salbutamol	Liver	0.0009	Not Set	1	0	0	0	0
zilpaterol	Liver	0.0003	Not Set	1	0	0	0	0

LOR = Limit of reporting; Aust. Std = Australian Standard

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.

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 urine and faeces.

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