



Ovine residue testing annual datasets 2017–18

National Residue Survey, Department of Agriculture and Water Resources

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)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
abamectin	fat	0.005	0.05	330	1	0	0
albendazole	liver	0.001	3	330	2	0	0
clorsulon	liver	0.08	not set	330	0	0	0
closantel	liver	0.05	5	330	7	0	0
derquantel	fat	0.005	0.0002	330	0	0	0
doramectin	fat	0.005	0.1	330	0	0	0
emamectin	fat	0.005	0.01	330	0	0	0
eprinomectin B1a	fat	0.005	not set	330	0	0	0
fenbendazole	liver	0.001	0.5	330	18	0	0
fenbendazole sulfone	liver	0.001	not set	330	1	0	0
ivermectin H2B1a	fat	0.005	0.02	330	0	0	0
levamisole	liver	0.001	1	330	32	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
mebendazole	liver	0.005	0.02	330	0	0	0
mebendazole, 5-hydroxy-	liver	0.005	not set	330	0	0	0
milbemectin	fat	0.01	0.002	330	0	0	0
monepantel sulphone	fat	0.005	7	330	1	0	0
morantel	liver	0.001	2	330	0	0	0
moxidectin	fat	0.005	0.5	330	61	2	0
nitroxylnil	liver	0.012	1	330	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	330	29	0	0
oxibendazole	liver	0.001	not set	330	0	0	0
praziquantel	fat	0.005	0.05	330	0	0	0
thiabendazole	liver	0.006	0.2	330	0	0	0
triclabendazole	liver	0.05	2	330	0	0	0

Table 2 Antibiotics

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
AHD	retina x 2	0.02	not defined	50	0	–	–
amoxicillin	kidney	0.01	0.01	410	0	0	0
AMOZ	retina x 2	0.02	not defined	50	0	–	–
ampicillin	kidney	0.01	not set	410	0	0	0
amprolium	liver	0.01	not set	330	0	0	0
AOZ	retina x 2	0.02	not defined	50	0	–	–
apramycin	kidney	0.25	2	410	0	0	0
avilamycin	kidney	0.1	not set	410	0	0	0
benzyl G penicillin	kidney	0.01	0.06	410	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.2	not set	410	0	0	0
cefuroxime	kidney	0.05	not set	410	0	0	0
cephalonium	kidney	0.05	not set	410	0	0	0
chloramphenicol	muscle	0.0003	not set	330	0	0	0
chlortetracycline	kidney	0.01	not set	410	0	0	0
ciprofloxacin	kidney	0.005	not set	50	0	0	0
cloxacillin	kidney	0.05	not set	410	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	410	0	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
doxycycline	kidney	0.01	not set	410	0	0	0
enrofloxacin	kidney	0.005	not set	50	0	0	0
erythromycin	kidney	0.1	0.3	410	0	0	0
florfenicol	muscle	0.005	not set	330	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	410	0	0	0
halofuginone	liver	0.01	not set	330	0	0	0
lasalocid	liver	0.01	0.7	330	0	0	0
levofloxacin	kidney	0.005	not set	50	0	0	0
lincomycin	kidney	0.1	not set	410	0	0	0
lomefloxacin	kidney	0.005	not set	50	0	0	0
maduramicin	liver	0.002	not set	330	0	0	0
marbofloxacin	kidney	0.005	not set	50	0	0	0
monensin	liver	0.01	0.2	330	3	0	0
moxifloxacin	kidney	0.005	not set	50	0	0	0
nalidixic acid	kidney	0.005	not set	50	0	0	0
narasin	liver	0.01	not set	330	0	0	0
neomycin	kidney	0.1	10	410	0	0	0
nicarbazin (4,4'- dinitrocarbanilide)	liver	0.01	not set	330	0	0	0
norfloxacin	kidney	0.005	not set	50	0	0	0
oleandomycin	kidney	0.2	0.1	410	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	410	0	0	0
salinomycin	liver	0.002	not set	330	0	0	0
sarafloxacin	kidney	0.005	not set	50	0	0	0
SEM	retina x 2	0.02	not defined	50	0	–	–
semduramycin	liver	0.002	not set	330	0	0	0
streptomycin	kidney	0.1	0.3	410	0	0	0
sulfachloropyridazine	kidney	0.05	not set	410	0	0	0
sulfadiazine	kidney	0.05	0.1	410	0	0	0
sulfadimethoxine	kidney	0.05	not set	410	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.05	0.1	410	0	0	0
sulfadoxine	kidney	0.05	0.1	410	0	0	0
sulfafurazole	kidney	0.05	not set	410	0	0	0
sulfamerazine	kidney	0.05	not set	410	0	0	0
sulfamethoxazole	kidney	0.05	not set	410	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
sulfamethoxydiazine (sulfameter)	kidney	0.05	not set	410	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	410	0	0	0
sulfapyridine	kidney	0.05	not set	410	0	0	0
sulfaquinoxaline	kidney	0.05	not set	410	0	0	0
sulfathiazole	kidney	0.05	not set	410	0	0	0
sulfatroxazole	kidney	0.05	0.1	410	0	0	0
tetracycline	kidney	0.01	not set	410	0	0	0
thiamphenicol	muscle	0.005	not set	330	0	0	0
tilmicosin	kidney	0.2	not set	410	0	0	0
trimethoprim	kidney	0.05	0.05	410	0	0	0
tulathromycin	kidney	0.3	not set	410	0	0	0
tylosin	kidney	0.1	not set	410	0	0	0
virginiamycin	kidney	0.2	0.2	410	0	0	0

Table 3 Contaminants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. 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	751	2	0	0
aroachlor 1254	fat	0.03	0.2	751	0	0	0
aroachlor 1260	fat	0.03	0.2	751	0	0	0
chlordane	fat	0.02	0.2	751	0	0	0
DDT	fat	0.05	5	751	6	0	0
endosulfan	fat	0.02	not set	751	0	0	0
endrin	fat	0.01	not set	751	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	751	0	0	0
HCH (BHC)	fat	0.02	0.3	751	0	1	0
heptachlor	fat	0.02	0.2	751	0	0	0
lindane (gamma-HCH)	fat	0.01	2	751	0	0	0
mirex	fat	0.02	not set	751	0	0	0
pentachlorobenzene	fat	0.02	not set	751	0	0	0

Table 4 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
bixafen	fat	0.02	not set	269	0	0	0
boscalid	fat	0.01	0.3	751	0	0	0
carbendazim	fat	0.01	0.2	751	0	0	0
cyproconazole	fat	0.02	0.03	751	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
fluquinconazole	fat	0.01	0.5	751	0	0	0
flutriafol	fat	0.02	0.5	751	0	0	0
fluxapyroxad	fat	0.01	0.05	751	0	0	0
procymidone	fat	0.02	0.2	751	0	0	0
propiconazole	fat	0.02	0.1	751	0	0	0
prothioconazole	fat	0.02	0.02	751	0	0	0
quintozene	fat	0.02	not set	751	0	0	0

Table 5 Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
ethofumesate	fat	0.02	0.5	751	0	0	0
metazachlor	fat	0.01	not set	269	0	0	0
metolachlor	fat	0.02	0.05	751	0	0	0
propachlor	fat	0.02	0.02	751	0	0	0
pyrasulfotole	fat	0.01	0.01	751	0	0	0

Table 6 Hormones

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
16-hydroxystanozolol	urine	0.001	not defined	330	0	–	–
betamethasone	liver	0.001	not set	10	0	0	0
boldenone 17-alpha	urine	0.001	not defined	330	6	–	–
boldenone 17-beta	urine	0.001	not defined	330	1	–	–
dexamethasone	liver	0.001	not set	10	0	0	0
dienoestrol	liver	0.0002	not set	330	0	0	0
diethylstilboestrol	liver	0.0002	not set	330	0	0	0
flumethasone	liver	0.001	not set	10	0	0	0
hexoestrol	liver	0.0002	not set	330	0	0	0
methandriol	urine	0.005	not defined	330	0	–	–
methylprednisolone	liver	0.001	not set	10	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	330	13	–	–
nortestosterone 17-beta	urine	0.001	not defined	330	0	–	–
stanozolol	urine	0.001	not defined	330	0	–	–
trenbolone	liver	0.0005	not set	330	0	0	0
triamcinolone	liver	0.001	not set	10	0	0	0
triamcinolone acetonide	liver	0.001	not set	10	0	0	0
zeranol (alpha-zearalanol)	liver	0.002	not set	330	0	0	0

Table 7 Insecticides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
bifenthrin	fat	0.02	2	751	1	0	0
bioresmethrin	fat	0.02	not set	751	0	0	0
carbaryl	fat	0.01	0.07	751	0	0	0
chlorantraniliprole	fat	0.01	0.02	751	0	0	0
chlorfenapyr	fat	0.02	0.05	751	0	0	0
chlorfenvinphos (sum of isomers)	fat	0.02	0.2	751	0	0	0
chlorfluazuron	fat	0.01	not set	330	0	0	0
chlorpyrifos	fat	0.02	0.5	751	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	751	0	0	0
coumaphos	fat	0.02	not set	751	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.5	751	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.5	751	0	0	0
cypermethrin (sum of isomers)	fat	0.02	0.5	751	2	0	0
cyromazine	kidney	0.01	0.2	330	0	0	0
deltamethrin	fat	0.02	0.2	751	0	0	0
diafenthiuron	fat	0.01	0.02	751	0	0	0
diazinon	fat	0.02	0.7	751	0	0	0
dichlorvos	fat	0.02	0.01	751	0	0	0
dicofol	fat	0.01	not set	751	0	0	0
dicyclanil	kidney	0.01	0.3	330	0	0	0
diflubenzuron	fat	0.01	0.05	330	0	0	0
dimethoate	fat	0.02	0.05	751	0	0	0
dinotefuran	fat	0.03	not set	269	0	0	0
esfenvalerate	fat	0.02	1	751	0	0	0
ethion	fat	0.02	not set	751	0	0	0
famphur	fat	0.02	not set	751	0	0	0
famphur oxygen- analogue	fat	0.02	not set	751	0	0	0
fenitrothion	fat	0.02	0.05	751	0	0	0
fenthion	fat	0.02	not set	751	0	0	0
fenvalerate (sum of isomers)	fat	0.02	1	751	0	0	0
fipronil	fat	0.02	0.1	751	0	1	0
fluazuron	fat	0.01	not set	330	0	0	0
flubendiamide	fat	0.01	0.05	751	0	0	0
flumethrin	fat	0.02	not set	751	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
imidacloprid	fat	0.01	0.05	751	0	0	0
indoxacarb	fat	0.02	1	751	0	0	0
malathion (maldison)	fat	0.01	1	751	0	0	0
melamine	kidney	0.01	not set	330	0	0	0
methidathion	fat	0.02	0.5	751	0	0	0
methoxychlor	fat	0.02	not set	751	0	0	0
mevinphos	fat	0.01	not set	751	0	0	0
omethoate	fat	0.02	not set	751	0	0	0
parathion-methyl	fat	0.02	not set	751	0	0	0
permethrin (sum of isomers)	fat	0.02	1	751	0	0	0
phosmet	fat	0.02	0.05	751	0	0	0
pirimiphos-methyl	fat	0.02	0.05	751	0	0	0
prothiofos	fat	0.01	not set	751	0	0	0
pyraclofos	fat	0.02	0.5	751	0	0	0
spinetoram	fat	0.005	2	330	1	0	0
spinosad	fat	0.005	2	330	18	0	0
spirotetramat	fat	0.02	0.02	751	0	0	0
sulfoxaflor	fat	0.01	0.2	751	0	0	0
tau-fluvalinate	fat	0.01	not set	751	0	0	0
temephos	fat	0.02	3	751	0	0	0
triflumuron	fat	0.01	2	330	0	0	0

Table 8 Metals

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
antimony	liver	0.01	no limit	330	0	0	0
arsenic (total)	liver	0.05	no limit	330	0	0	0
cadmium	liver	0.01	1.25	330	293	13	7
lead	liver	0.01	0.5	330	246	2	1
mercury (total)	liver	0.01	no limit	330	20	0	0

Table 9 Mycotoxins

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to $\leq$ MRL	> MRL
talernanol (beta-zearalanol)	liver	0.002	no limit	330	0	0	0
zearalanone	liver	0.002	no limit	330	0	0	0
zearalenol alpha	liver	0.002	no limit	330	1	0	0
zearalenol beta	liver	0.002	no limit	330	9	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
zearalenone	liver	0.002	no limit	330	0	0	0

Table 10 Other veterinary drugs

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
cimaterol	liver	0.0003	not set	330	0	0	0
clenbuterol	liver	0.0003	not set	330	0	0	0
flunixin	kidney	0.01	not set	330	0	0	0
ketoprofen	kidney	0.01	not set	330	0	0	0
mabuterol	liver	0.0003	not set	330	0	0	0
meloxicam	kidney	0.01	0.01	330	0	0	0
oxyphenbutazone	kidney	0.01	not set	330	0	0	0
phenylbutazone	kidney	0.01	not set	330	0	0	0
ractopamine	liver	0.0003	not set	330	0	0	0
salbutamol	liver	0.001	not set	330	0	0	0
tolfenamic acid	kidney	0.005	not set	330	0	0	0
zilpaterol	liver	0.0003	not set	330	0	0	0
cimaterol	liver	0.0003	not set	330	0	0	0
clenbuterol	liver	0.0003	not set	330	0	0	0
flunixin	kidney	0.01	not set	330	0	0	0
ketoprofen	kidney	0.01	not set	330	0	0	0
mabuterol	liver	0.0003	not set	330	0	0	0
meloxicam	kidney	0.01	0.01	330	0	0	0
oxyphenbutazone	kidney	0.01	not set	330	0	0	0
phenylbutazone	kidney	0.01	not set	330	0	0	0
ractopamine	liver	0.0003	not set	330	0	0	0
salbutamol	liver	0.001	not set	330	0	0	0
tolfenamic acid	kidney	0.005	not set	330	0	0	0
zilpaterol	liver	0.0003	not set	330	0	0	0