



Ovine residue testing annual datasets 2018–19

National Residue Survey, Department of Agriculture

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	0	1	0
albendazole	liver	0.001	3	330	0	0	0
clorsulon	liver	0.08	not set	330	0	0	0
closantel	liver	0.05	5	330	2	0	0
derquantel	fat	0.001	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	19	1	0
ivermectin H2B1a	fat	0.005	0.02	330	0	0	0
levamisole	liver	0.001	1	330	37	0	0
mebendazole	liver	0.005	0.02	330	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
milbemectin	fat	0.01	0.002	330	0	0	0
monepantel sulphone	fat	0.005	7	330	0	0	0
morantel	liver	0.001	2	330	0	0	0
moxidectin	fat	0.005	0.5	330	54	0	0
nitroxylin	liver	0.012	1	330	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	330	47	0	0
oxibendazole	liver	0.001	not set	330	0	0	0
oxyclozanide	liver	0.005	2	330	0	0	0
praziquantel	fat	0.005	0.05	330	0	0	0
thiabendazole-A	liver	0.006	0.2	330	0	0	0
triclabendazole	liver	0.05	2	331	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	0.02	not defined	50	0	–	–
amoxicillin	kidney	0.01	0.01	410	0	0	0
AMOZ	retina	0.02	not defined	50	0	–	–
ampicillin	kidney	0.01	not set	410	0	0	0
AOZ	retina	0.02	not defined	50	0	–	–
apramycin	kidney	0.1	2	410	0	0	0
avilamycin	kidney	0.05	not set	410	0	0	0
benzyl G penicillin	kidney	0.01	0.06	410	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.1	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	0.01	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
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	0.003	not set	330	0	0	0
flumequine	kidney	0.005	not set	50	0	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
gatifloxacin	kidney	0.005	not set	50	0	0	0
gentamycin	kidney	0.1	not set	410	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
marbofloxacin	kidney	0.005	not set	50	0	0	0
moxifloxacin	kidney	0.005	not set	50	0	0	0
nalidixic acid	kidney	0.005	not set	50	0	0	0
neomycin	kidney	0.1	10	410	0	0	0
norfloxacin	kidney	0.005	not set	50	0	0	0
oleandomycin	kidney	0.1	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
sarafloxacin	kidney	0.005	not set	50	0	0	0
SEM	retina	0.02	not defined	50	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
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	0.0029	not set	330	0	0	0
tilmicosin	kidney	0.1	not set	410	0	0	0
trimethoprim	kidney	0.01	0.05	410	0	0	0
tulathromycin	kidney	0.1	not set	410	0	0	0
tylosin	kidney	0.1	not set	410	0	0	0
virginiamycin	kidney	0.1	0.2	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
AHD	retina	0.02	not defined	50	0	–	–
amoxicillin	kidney	0.01	0.01	410	0	0	0
AMOZ	retina	0.02	not defined	50	0	–	–
ampicillin	kidney	0.01	not set	410	0	0	0
AOZ	retina	0.02	not defined	50	0	–	–
apramycin	kidney	0.1	2	410	0	0	0
avilamycin	kidney	0.05	not set	410	0	0	0
benzyl G penicillin	kidney	0.01	0.06	410	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.1	not set	410	0	0	0

Table 3 Anticoccidials

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
amprolium	liver	0.01	not set	331	0	0	0
decoquinate	liver	0.002	not set	38	0	0	0
diclazuril	liver	0.01	not set	38	0	0	0
halofuginone	liver	0.01	not set	331	0	0	0
lasalocid	liver	0.01	0.7	331	0	0	0
maduramicin	liver	0.002	not set	331	0	0	0
monensin	liver	0.01	0.2	331	0	0	0
narasin	liver	0.01	not set	331	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	liver	0.01	not set	331	0	0	0
salinomycin	liver	0.002	not set	331	0	0	0
semduramycin	liver	0.002	not set	331	0	0	0
toltrazuril	liver	0.01	not set	38	0	0	0

Table 4 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	750	4	0	0
aroachlor 1254	fat	0.03	0.2	750	0	0	0
aroachlor 1260	fat	0.03	0.2	750	0	0	0
chlordane	fat	0.02	0.2	750	0	0	0
DDT	fat	0.05	5	750	10	0	0
endosulfan	fat	0.02	not set	750	0	0	0
endrin	fat	0.01	not set	750	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
HCB (hexachlorobenzene)	fat	0.02	1	750	0	0	0
HCH (BHC)	fat	0.02	0.3	750	0	0	0
heptachlor	fat	0.02	0.2	750	0	0	0
lindane (gamma-HCH)	fat	0.01	2	750	0	0	0
mirex	fat	0.02	not set	750	0	0	0
pentachlorobenzene	fat	0.02	not set	750	0	0	0

Table 5 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
amisulbrom	fat	0.01	0.01	107	0	0	0
bixafen	fat	0.02	not set	750	0	0	0
boscalid	fat	0.01	0.3	750	0	0	0
carbendazim	fat	0.01	0.2	750	0	0	0
cyproconazole	fat	0.02	0.03	750	0	0	0
difenoconazole	fat	0.01	0.05	107	0	0	0
fludioxonil	fat	0.01	0.05	107	0	0	0
fluopicolide	fat	0.01	0.01	107	0	0	0
fluopyram-A	fat	0.01	0.02	107	0	0	0
fluquinconazole	fat	0.01	0.5	750	0	0	0
flutriafol	fat	0.02	0.5	750	0	0	0
fluxapyroxad	fat	0.01	0.05	750	0	0	0
imazalil	fat	0.01	not set	107	0	0	0
mandestrobin	fat	0.01	not set	107	0	0	0
procymidone	fat	0.02	0.2	750	0	0	0
propamocarb	fat	0.01	0.01	107	0	0	0
propiconazole	fat	0.02	0.1	750	0	0	0
prothioconazole	fat	0.02	0.02	750	0	0	0
pyrimethanil	fat	0.01	0.05	107	0	0	0
pyriofenone	fat	0.01	0.01	107	0	0	0
quinoxifen	fat	0.01	0.1	107	0	0	0
quintozene	fat	0.02	0.2	750	0	0	0
tebuconazole	fat	0.01	0.1	107	0	0	0
trifloxystrobin	fat	0.01	0.05	107	0	0	0

Table 6 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
cloquintocet	fat	0.01	0.1	107	0	0	0
ethofumesate	fat	0.02	0.5	750	0	0	0
indaziflam	fat	0.01	not set	107	0	0	0
metazachlor	fat	0.01	not set	750	0	0	0
metolachlor	fat	0.02	0.05	750	0	0	0
propachlor	fat	0.02	0.02	750	0	0	0
pyrasulfotole	fat	0.01	0.01	750	0	0	0
pyroxsulam	fat	0.01	0.01	107	0	0	0
saflufenacil-A	fat	0.01	0.01	107	0	0	0

Table 7 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	9	–	–
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	331	0	0	0
diethylstilboestrol	liver	0.0002	not set	331	0	0	0
flumethasone	liver	0.001	not set	10	0	0	0
hexoestrol	liver	0.0002	not set	331	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	331	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	331	0	0	0

Table 8 Insecticides

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
acetamiprid-A	fat	0.01	0.01	107	0	0	0
bifenthrin	fat	0.02	2	750	1	0	0
bioresmethrin	fat	0.02	not set	750	0	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
carbaryl	fat	0.01	0.07	750	0	0	0
chlorantraniliprole	fat	0.01	0.02	750	0	0	0
chlorfenapyr	fat	0.02	0.05	750	0	0	0
chlorfenvinphos	fat	0.02	0.2	750	0	0	0
chlorfluazuron	fat	0.01	not set	330	0	0	0
chlorpyrifos	fat	0.02	0.5	750	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	750	0	0	0
clothianidin	fat	0.01	0.02	107	0	0	0
coumaphos	fat	0.02	not set	750	0	0	0
cyantraniliprole	fat	0.01	0.01	107	0	0	0
cyfluthrin	fat	0.02	0.5	750	0	0	0
cyhalothrin	fat	0.02	0.5	750	1	0	0
cypermethrin	fat	0.02	0.5	750	4	0	0
cyromazine	kidney	0.01	0.2	330	2	0	0
deltamethrin	fat	0.02	0.2	750	0	0	0
diafenthiuron	fat	0.01	0.02	750	0	0	0
diazinon	fat	0.02	0.7	750	0	0	0
dichlorvos	fat	0.02	0.01	750	0	0	0
dicofol	fat	0.01	not set	750	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	750	0	0	0
dinotefuran	fat	0.03	not set	750	0	0	0
esfenvalerate	fat	0.02	1	750	0	0	0
ethion	fat	0.02	not set	750	0	0	0
famphur	fat	0.02	not set	750	0	0	0
fenitrothion	fat	0.02	0.05	750	0	0	0
fenthion	fat	0.02	not set	750	0	0	0
fenvalerate	fat	0.02	1	750	0	0	0
fipronil	fat	0.02	0.1	750	0	0	0
flonicamid-A	fat	0.01	0.02	107	0	0	0
fluazuron	fat	0.01	not set	330	0	0	0
flubendiamide	fat	0.01	0.05	750	0	0	0
flumethrin	fat	0.02	not set	750	0	0	0
imidacloprid	fat	0.01	0.05	750	0	0	0
indoxacarb	fat	0.02	1	750	0	0	0
malathion (maldison)	fat	0.01	1	750	0	0	0
melamine	kidney	0.01	no limit	330	1	0	0
metaflumizone	fat	0.01	not set	107	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
methidathion	fat	0.02	0.5	750	0	0	0
methoxychlor	fat	0.02	not set	750	0	0	0
mevinphos	fat	0.01	not set	750	0	0	0
novaluron	fat	0.01	not set	330	0	0	0
omethoate	fat	0.02	not set	750	0	0	0
parathion-methyl	fat	0.02	not set	750	0	0	0
permethrin	fat	0.02	1	750	0	0	0
phosmet	fat	0.02	0.05	750	0	0	0
pirimiphos-methyl	fat	0.02	0.05	750	0	0	0
prothiofos	fat	0.01	not set	750	0	0	0
pyraclofos	fat	0.02	0.5	750	0	0	0
spinetoram	fat	0.005	2	330	0	0	0
spinosad	fat	0.005	2	330	19	0	0
spirotetramat	fat	0.02	0.02	750	0	0	0
sulfoxaflor	fat	0.01	0.2	750	0	0	0
tau-fluvalinate	fat	0.01	not set	750	0	0	0
temephos	fat	0.02	3	750	1	0	0
triflumuron	fat	0.01	2	330	1	0	0

Table 9 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	331	0	0	0
arsenic (total)	liver	0.05	no limit	331	0	0	0
cadmium	liver	0.01	1.25	331	293	8	5
lead	liver	0.01	0.5	331	257	3	3
mercury (total)	liver	0.01	no limit	331	22	0	0

Table 10 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	331	0	0	0
zearalanone	liver	0.002	no limit	331	0	0	0
zearalenol alpha	liver	0.002	no limit	331	5	0	0
zearalenol beta	liver	0.002	no limit	331	8	0	0
zearalenone	liver	0.002	no limit	331	0	0	0

Table 11 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	331	0	0	0
clenbuterol	liver	0.0003	not set	331	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	331	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	331	0	0	0
salbutamol	liver	0.001	not set	331	0	0	0
tolfenamic acid	kidney	0.005	not set	330	0	0	0
zilpaterol	liver	0.0003	not set	331	0	0	0