



Beef residue testing annual datasets 2016–17

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 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	0.1	331	0	0	0
albendazole	liver	0.001	0.1	330	1	0	0
clorsulon	liver	0.08	not set	330	0	0	0
closantel	liver	0.05	not set	330	0	0	0
derquantel	fat	0.005	not set	331	0	0	0
doramectin	fat	0.005	0.1	331	0	0	1
emamectin	fat	0.005	0.01	331	0	0	0
eprinomectin B1a	fat	0.005	0.5	331	0	0	0
fenbendazole	liver	0.001	0.1	330	8	0	0
ivermectin H2B1a	fat	0.005	0.04	331	0	0	1
levamisole	liver	0.001	1	330	0	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
mebendazole, 5-hydroxy-	liver	0.005	not set	330	0	0	0
milbemectin	fat	0.01	0.002	331	0	0	0
monepantel sulphone	fat	0.005	7	331	0	0	0
morantel	liver	0.001	2	330	0	0	0
moxidectin	fat	0.005	1	331	13	0	0
nitroxylin	liver	0.012	not set	330	0	0	0
oxfendazole	liver	0.001	3	330	1	0	0
oxibendazole	liver	0.001	not set	330	0	0	0
praziquantel	fat	0.005	not set	331	0	0	0
thiabendazole-A	liver	0.01	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	0.002	not defined	50	0	0	0
amoxicillin	kidney	0.01	0.01	970	0	0	0
AMOZ	retina	0.002	not defined	50	0	0	0
ampicillin	kidney	0.01	not set	970	0	0	0
amprolium	liver	0.01	not set	330	0	0	0
AOZ	retina	0.002	not defined	50	0	0	0
apramycin	kidney	0.5	2	970	0	0	0
avilamycin	kidney	0.1	not set	970	0	0	0
benzyl G penicillin	kidney	0.01	0.06	970	0	0	0
ceftiofur	kidney	0.2	2	970	0	0	0
cefuroxime	kidney	0.05	0.1	970	0	0	0
cephalonium	kidney	0.05	0.1	970	0	0	0
chloramphenicol	muscle	0.0003	not set	430	0	0	0
chlortetracycline	kidney	0.01	0.6	970	15	0	0
ciprofloxacin	kidney	0.005	not set	50	0	0	0
cloxacillin	kidney	0.05	not set	970	0	0	0
danofloxacin	kidney	0.005	not set	50	0	0	0
difloxacin	kidney	0.005	not set	43	0	0	0
dihydrostreptomycin	kidney	0.1	0.3	970	0	0	0
doxycycline	kidney	0.01	not set	970	0	0	0
enrofloxacin	kidney	0.005	not set	50	0	0	0
erythromycin	kidney	0.1	0.3	970	0	0	0
florfenicol	muscle	0.005	0.3	430	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
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	970	0	0	0
halofuginone	liver	0.01	0.03	330	0	0	0
lasalocid	liver	0.01	0.7	330	1	0	0
levofloxacin	kidney	0.005	not set	50	0	0	0
lincomycin	kidney	0.1	0.2	970	0	0	0
lomefloxacin	kidney	0.005	not set	50	0	0	0
maduramicin	liver	0.01	not set	330	0	0	0
marbofloxacin	kidney	0.005	not set	50	0	0	0
monensin	liver	0.01	0.05	330	23	2	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	0.05	330	0	0	0
neomycin	kidney	0.1	10	970	1	0	0
nicarbazin	liver	0.01	not set	330	0	0	0
norfloxacin	kidney	0.01	not set	380	0	0	0
oleandomycin	kidney	0.2	0.1	970	0	0	0
oxytetracycline	kidney	0.01	0.6	970	8	0	0
salinomycin	liver	0.01	0.5	330	0	0	0
sarafloxacin	kidney	0.005	not set	50	0	0	0
SEM	retina	0.002	not defined	50	0	0	0
semduramycin	liver	0.01	not set	330	0	0	0
streptomycin	kidney	0.1	0.3	970	0	0	0
sulfachloropyridazine	kidney	0.05	not set	970	0	0	0
sulfadiazine	kidney	0.05	0.1	970	0	0	0
sulfadimethoxine	kidney	0.05	not set	970	0	0	0
sulfadimidine	kidney	0.05	0.1	970	0	0	0
sulfadoxine	kidney	0.05	0.1	970	0	0	0
sulfafurazole	kidney	0.05	not set	970	0	0	0
sulfamerazine	kidney	0.05	not set	970	0	0	0
sulfamethoxazole	kidney	0.05	not set	970	0	0	0
sulfamethoxydiazine	kidney	0.05	not set	970	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	970	0	0	0
sulfapyridine	kidney	0.05	not set	970	0	0	0
sulfaquinoxaline	kidney	0.05	not set	970	0	0	0
sulfathiazole	kidney	0.05	not set	970	0	0	0
sulfatroxazole	kidney	0.05	0.1	970	0	0	0
tetracycline	kidney	0.01	not set	970	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
thiamphenicol	muscle	0.005	not set	430	0	0	0
tilmicosin	kidney	0.2	1	970	0	0	0
trimethoprim	kidney	0.05	not set	970	0	0	0
tulathromycin	kidney	0.3	1	970	0	0	0
tylosin	kidney	0.1	0.1	970	0	0	0
virginiamycin	kidney	0.2	0.2	970	0	0	0

Table 3 Contaminants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin	fat	0.02	0.2	1115	0	0	1
arochlor 1254	fat	0.03	0.2	1115	0	0	0
arochlor 1260	fat	0.03	0.2	1115	0	0	0
chlordane	fat	0.02	0.2	1115	1	0	0
DDT	fat	0.05	5	1115	10	0	0
endosulfan	fat	0.02	not set	1115	0	0	0
endrin	fat	0.01	not set	1115	0	0	0
HCB	fat	0.02	1	1115	0	0	0
HCH	fat	0.02	0.3	1115	0	0	0
heptachlor	fat	0.02	0.2	1115	1	0	0
lindane	fat	0.01	2	1115	0	0	0
mirex	fat	0.02	not set	1115	0	0	0
pentachlorobenzene	fat	0.02	not set	1115	0	0	0

Table 4 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
boscalid	fat	0.01	0.3	1115	0	0	0
carbendazim	fat	0.01	0.2	1115	0	0	0
cyproconazole	fat	0.02	0.03	1115	0	0	0
fluquinconazole	fat	0.01	0.5	1115	1	0	0
flutriafol	fat	0.02	0.05	1115	0	0	0
fluxapyroxad	fat	0.01	0.05	1115	0	0	0
procymidone	fat	0.02	0.2	1115	0	0	0
propiconazole	fat	0.02	0.1	1115	0	0	0
prothioconazole	fat	0.02	0.02	1115	0	0	0
quintozene	fat	0.02	not set	1115	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	1115	0	0	0
metolachlor	fat	0.02	0.05	1115	0	0	0
propachlor	fat	0.02	0.02	1115	0	0	0
pyrasulfotole	fat	0.01	0.01	1115	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	430	0	0	0
betamethasone	liver	0.001	not set	30	0	0	0
boldenone 17-alpha	urine	0.001	not defined	430	3	0	0
boldenone 17-beta	urine	0.001	not defined	430	0	0	0
dexamethasone	liver	0.001	0.1	30	0	0	0
dienoestrol	liver	0.0002	not set	430	0	0	0
diethylstilboestrol	liver	0.0002	not set	430	0	0	0
flumethasone	liver	0.001	not set	30	0	0	0
hexoestrol	liver	0.0002	not set	430	0	0	0
methandriol	urine	0.005	not defined	430	0	0	0
methylprednisolone	liver	0.001	not set	30	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	430	2	0	0
nortestosterone 17-beta	urine	0.001	not defined	430	0	0	0
stanozolol	urine	0.001	not defined	430	0	0	0
trenbolone	liver	0.0005	0.01	430	5	0	0
triamcinolone	liver	0.001	not set	30	0	0	0
triamcinolone acetoneide	liver	0.001	not set	30	0	0	0
zeranol	liver	0.002	0.02	430	1	0	0

Table 7 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
bifenthrin	fat	0.02	2	1115	1	0	0
bioresmethrin	fat	0.02	not set	1115	0	0	0
carbaryl	fat	0.01	0.07	1115	0	0	0
chlorantraniliprole	fat	0.01	0.02	1115	0	0	0
chlorfenapyr	fat	0.02	0.05	1115	0	0	0
chlorfenvinphos	fat	0.02	0.2	1115	0	1	1

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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
chlorfluazuron	fat	0.01	not set	331	0	0	0
chlorpyrifos	fat	0.02	0.5	1115	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	1115	0	0	1
coumaphos	fat	0.02	0.02	1115	0	0	0
cyfluthrin	fat	0.02	0.5	1115	0	0	0
cyhalothrin	fat	0.02	0.5	1115	0	0	0
cypermethrin	fat	0.02	0.5	1115	4	0	0
cyromazine	kidney	0.01	0.05	330	0	0	0
deltamethrin	fat	0.02	0.5	1115	0	0	0
diafenthiuron	fat	0.01	not set	1115	0	0	0
diazinon	fat	0.02	0.7	1115	6	0	0
dichlorvos	fat	0.02	0.01	1115	0	0	0
dicofol	fat	0.01	not set	1115	0	0	0
dicyclanil	kidney	0.01	not set	330	0	0	0
diflubenzuron	fat	0.01	0.02	331	0	0	0
dimethoate	fat	0.02	0.05	1115	0	0	0
esfenvalerate	fat	0.02	1	1115	0	0	0
ethion	fat	0.02	2.5	1115	1	0	0
famphur	fat	0.02	not set	1115	0	0	0
famphur oxygen- analogue	fat	0.02	not set	1115	0	0	0
fenitrothion	fat	0.02	0.05	1115	0	0	0
fenthion	fat	0.02	not set	1115	0	0	0
fenvalerate	fat	0.02	1	1115	0	0	0
fipronil	fat	0.02	0.1	1115	0	0	0
fluazuron	fat	0.01	7	331	7	0	0
flubendiamide	fat	0.01	0.05	1115	0	0	0
flumethrin	fat	0.02	0.2	1115	0	0	0
imidacloprid	fat	0.01	0.05	1115	0	0	0
indoxacarb	fat	0.02	1	1115	0	0	0
malathion	fat	0.01	1	1115	0	0	0
melamine	kidney	0.01	not set	330	0	0	0
methidathion	fat	0.02	0.5	1115	0	0	0
methoxychlor	fat	0.02	not set	1115	0	0	0
mevinphos	fat	0.01	not set	1115	0	0	0
omethoate	fat	0.02	not set	1115	0	0	0
parathion-methyl	fat	0.02	not set	1115	0	0	0
permethrin	fat	0.02	1	1115	3	0	0
phosmet	fat	0.02	1	1115	0	0	0
pirimiphos-methyl	fat	0.02	0.05	1115	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
prothiofos	fat	0.01	not set	1115	0	0	0
pyraclofos	fat	0.02	not set	1115	0	0	0
spinetoram	fat	0.005	2	331	0	0	0
spinosad	fat	0.005	2	331	73	0	0
spirotetramat	fat	0.02	0.02	1115	0	0	0
sulfoxaflor	fat	0.01	0.2	1115	0	0	0
tau-fluvalinate	fat	0.01	not set	1115	0	0	0
temephos	fat	0.02	5	1115	0	0	0
triflumuron	fat	0.01	0.05	331	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	450	0	0	0
arsenic	liver	0.05	no limit	450	2	0	0
cadmium	liver	0.01	1.25	450	353	4	1
lead	liver	0.01	0.5	450	157	0	1
mercury	liver	0.01	no limit	450	7	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	liver	0.002	no limit	430	1	0	0
zearalanone	liver	0.002	no limit	430	1	0	0
zearalenol alpha	liver	0.002	no limit	430	14	0	0
zearalenol beta	liver	0.002	no limit	430	33	0	0
zearalenone	liver	0.002	no limit	430	3	0	0

Table 10 Other veterinary drugs

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
bamethan	liver	0.001	not set	115	0	0	0
brombuterol	liver	0.001	not set	115	0	0	0
chlorbrombuterol	liver	0.001	not set	115	0	0	0
cimaterol	liver	0.0003	not set	430	0	0	0
cimbuterol	liver	0.001	not set	115	0	0	0
clenbuterol	liver	0.0003	not set	430	0	0	0
clencyclohexerol	liver	0.001	not set	115	0	0	0
clenpenterol	liver	0.001	not set	115	0	0	0
clenproperol	liver	0.001	not set	115	0	0	0

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fenoterol	liver	0.001	not set	115	0	0	0
flunixin	kidney	0.01	0.02	330	0	0	0
isoxsuprine	liver	0.001	not set	115	0	0	0
ketoprofen	kidney	0.01	0.05	330	0	0	0
mabuterol	liver	0.0003	not set	430	0	0	0
mapenterol	liver	0.001	not set	115	0	0	0
nitrodrine	liver	0.001	not set	115	0	0	0
orciprenaline	liver	0.001	not set	115	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	430	0	0	0
salbutamol	liver	0.001	not set	430	0	0	0
salmeterol	liver	0.001	not set	115	0	0	0
terbutaline	liver	0.001	not set	115	0	0	0
tolfenamic acid	kidney	0.005	0.01	330	0	0	0
tulobuterol	liver	0.001	not set	115	0	0	0
zilpaterol	liver	0.0003	not set	430	0	0	0