



Beef 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	0.1	330	0	0	0
albendazole	liver	0.001	0.1	330	0	0	0
clorsulon	liver	0.08	0.1	330	0	0	0
closantel	liver	0.05	not set	330	0	0	0
derquantel	fat	0.001	not set	330	0	0	0
doramectin	fat	0.005	0.1	330	1	0	0
emamectin	fat	0.005	0.01	330	0	0	0
epinomectin B1a	fat	0.005	0.5	330	0	0	0
fenbendazole	liver	0.001	0.1	330	9	0	1
fenbendazole sulfone	liver	0.001	not set	330	2	0	0
ivermectin H2B1a	fat	0.005	0.2	330	3	0	0
levamisole	liver	0.001	1	330	4	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
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	0	0	0
morantel	liver	0.001	2	330	0	0	0
moxidectin	fat	0.005	1	330	19	0	1
nitroxynil	liver	0.012	1	330	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	330	2	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	not set	330	0	0	0
thiabendazole-A	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	0.002	not defined	50	0	–	–
amoxicillin	kidney	0.01	0.01	970	0	0	0
AMOZ	retina	0.002	not defined	50	0	–	–
ampicillin	kidney	0.01	not set	970	0	0	0
AOZ	retina	0.002	not defined	50	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 (desfuoylceftiofur)	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	432	0	0	0
chlortetracycline	kidney	0.01	0.6	970	4	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	50	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

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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
florfenicol	muscle	0.003	0.3	432	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	970	0	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
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	970	3	0	0
norfloxacin	kidney	0.005	not set	50	0	0	0
oleandomycin	kidney	0.2	0.1	970	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	970	3	0	0
sarafloxacin	kidney	0.005	not set	50	0	0	0
SEM	retina	0.002	not defined	50	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 (sulfamethazine)	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 (sulfameter)	kidney	0.05	not set	970	0	0	0
sulfamethoxyypyridazine	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
thiamphenicol	muscle	0.0029	not set	432	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	1	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
tylosin	kidney	0.1	0.1	970	0	0	0
virginiamycin	kidney	0.2	0.2	970	0	0	0

Table 3 Anticoccidials

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
amprolium	liver	0.01	not set	330	0	0	0
decoquinate	liver	0.002	not set	73	0	0	0
diclazuril	liver	0.01	not set	73	0	0	0
halofuginone	liver	0.01	0.03	330	0	0	0
lasalocid	liver	0.01	0.7	330	2	1	0
maduramicin	liver	0.002	not set	330	0	0	0
monensin	liver	0.01	0.05	330	28	0	0
narasin	liver	0.01	0.05	330	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	liver	0.01	not set	330	0	0	0
salinomycin	liver	0.002	0.5	330	0	0	0
semduramycin	liver	0.002	not set	330	0	0	0
toltrazuril	liver	0.01	2	73	0	0	0

Table 4 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 (HHDN+HEOD)	fat	0.02	0.2	1115	2	0	0
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	0	0	0
DDT	fat	0.05	5	1115	6	0	0
endosulfan	fat	0.02	not set	1115	0	0	0
endrin	fat	0.01	not set	1115	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	1115	0	0	0
HCH (BHC)	fat	0.02	0.3	1115	0	0	0
heptachlor	fat	0.02	0.2	1115	0	0	0
lindane (gamma-HCH)	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 5 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to \leq ½ MRL	> ½ MRL to \leq MRL	> MRL
amisulbrom	fat	0.01	0.01	180	0	0	0
bixafen	fat	0.02	not set	1115	0	0	0
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
difenoconazole	fat	0.01	0.05	180	0	0	0
fludioxonil	fat	0.01	0.05	180	0	0	0
fluopicolide	fat	0.01	0.01	180	0	0	0
fluopyram-A	fat	0.01	0.02	180	0	0	0
fluquinconazole	fat	0.01	0.5	1115	0	0	0
flutriafol	fat	0.02	0.5	1115	0	0	0
fluxapyroxad	fat	0.01	0.05	1115	0	0	0
imazalil	fat	0.01	not set	180	0	0	0
ipconazole	kidney	0.02	0.01	300	0	0	0
mandestrobin	fat	0.01	not set	180	0	0	0
procymidone	fat	0.02	0.2	1115	0	0	0
propamocarb	fat	0.01	0.01	180	0	0	0
propiconazole	fat	0.02	0.1	1115	0	0	0
prothioconazole	fat	0.02	0.02	1115	0	0	0
pyrimethanil	fat	0.01	0.05	180	0	0	0
pyriofenone	fat	0.01	0.01	180	0	0	0
quinoxifen	fat	0.01	0.1	180	0	0	0
quintozene	fat	0.02	0.2	1115	0	0	0
tebuconazole	fat	0.01	0.1	180	0	0	0
trifloxystrobin	fat	0.01	0.05	180	0	0	0

Table 6 Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to \leq ½ MRL	> ½ MRL to \leq MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	kidney	0.3	0.2	300	0	0	0
2,4-D	kidney	0.03	2	300	2	0	0
amitrole	kidney	0.01	0.01	300	0	0	0
atrazine	kidney	0.015	0.1	300	0	0	0
bromacil	kidney	0.015	0.04	300	0	0	0
bromoxynil	kidney	0.05	3	300	0	0	0
carfentrazone-ethyl	kidney	0.02	0.05	300	0	0	0
chlorpropham	kidney	0.01	not set	300	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
chlorsulfuron	kidney	0.025	0.05	300	0	0	0
chlorthal-dimethyl	kidney	0.015	0.05	300	0	0	0
clethodim (parent only)	kidney	0.02	0.05	300	0	0	0
clodinafop-propargyl	kidney	0.02	0.05	300	0	0	0
clopyralid	kidney	0.34	5	300	0	0	0
cloquintocet	fat	0.01	0.1	180	0	0	0
cyanazine	kidney	0.02	not set	300	0	0	0
dicamba	kidney	1.3	0.05	300	0	0	0
dichlobenil	kidney	0.01	not set	300	0	0	0
dichlorprop-P	kidney	0.01	0.05	300	0	0	0
diclofop-methyl	kidney	0.01	0.05	300	0	0	0
diflufenican	kidney	0.02	0.1	300	0	0	0
diquat	kidney	0.02	0.05	300	0	0	0
diuron	kidney	0.02	3	300	1	0	0
ethofumesate	fat	0.02	0.5	1115	0	0	0
ethofumesate	kidney	0.05	0.5	300	0	0	0
fenoxaprop-ethyl	kidney	0.015	0.2	300	0	0	0
flamprop-M-methyl	kidney	0.01	0.01	300	0	0	0
fluazifop-p-butyl	kidney	0.025	0.05	300	0	0	0
flumetsulam	kidney	0.01	0.3	300	0	0	0
glufosinate	kidney	0.01	5	300	0	0	0
glyphosate	kidney	0.01	2	300	14	1	0
haloxyfop	kidney	0.01	0.5	300	1	0	0
imazamox	kidney	0.025	0.05	300	0	0	0
imazapic	kidney	0.01	0.05	300	0	0	0
imazapyr	kidney	0.015	0.05	300	0	0	0
imazaquin	kidney	0.015	not set	300	0	0	0
imazethapyr	kidney	0.02	0.1	300	0	0	0
indaziflam	fat	0.01	not set	180	0	0	0
iodosulfuron-methyl	kidney	0.015	0.01	300	0	0	0
ioxynil	kidney	0.02	not set	300	0	0	0
isoxaben	kidney	0.02	0.01	300	0	0	0
linuron	kidney	0.015	1	300	0	0	0
MCPA	kidney	0.015	0.05	300	4	0	1
metazachlor	fat	0.01	not set	1115	0	0	0
methabenzthiazuron	kidney	0.01	not set	300	0	0	0
metolachlor	fat	0.02	0.05	1115	0	0	0
metolachlor	kidney	0.02	0.05	300	0	0	0
metosulam	kidney	0.02	0.01	300	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
metribuzin	kidney	0.02	0.05	300	0	0	0
metsulfuron-methyl	kidney	0.02	0.1	300	0	0	0
napropamide	kidney	0.02	not set	300	0	0	0
norflurazon	kidney	0.015	not set	300	0	0	0
oryzalin	kidney	0.04	not set	300	0	0	0
paraquat	kidney	0.02	0.5	300	0	0	0
pendimethalin	kidney	0.04	0.01	300	0	0	0
picloram	kidney	0.04	5	300	0	0	0
propachlor	fat	0.02	0.02	1115	0	0	0
propachlor	kidney	0.015	0.1	300	0	0	0
propyzamide	kidney	0.015	0.2	300	0	0	0
pyrasulfotole	fat	0.01	0.01	1115	0	0	0
pyroxsulam	fat	0.01	0.01	180	0	0	0
quizalofop-ethyl	kidney	0.01	0.2	300	0	0	0
quizalofop-P-tefuryl	kidney	0.01	not set	300	0	0	0
saflufenacil-A	fat	0.01	0.01	180	0	0	0
sethoxydim	kidney	0.01	0.05	300	0	0	0
simazine	kidney	0.02	0.05	300	0	0	0
tralkoxydim	kidney	0.13	not set	300	0	0	0
triasulfuron	kidney	0.03	0.05	300	0	0	0
triclopyr	kidney	0.04	5	300	0	0	0
trifluralin	kidney	0.01	0.05	300	0	0	0

Table 7 Hormones

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
16-hydroxystanozolol	urine	0.001	not defined	430	0	-	-
betamethasone	liver	0.001	not set	30	0	0	0
boldenone 17-alpha	urine	0.001	not defined	430	3	-	-
boldenone 17-beta	urine	0.001	not defined	430	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	-	-
methylprednisolone	liver	0.001	not set	30	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	430	3	-	-
nortestosterone 17-beta	urine	0.001	not defined	430	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
stanozolol	urine	0.001	not defined	430	0	–	–
trenbolone	liver	0.0005	0.01	430	8	0	0
triamcinolone	liver	0.001	not set	30	0	0	0
triamcinolone acetonide	liver	0.001	not set	30	0	0	0
zeranol (alpha-zearalanol)	liver	0.002	0.02	430	2	1	0

Table 8 Insecticides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
acetamiprid-A	fat	0.01	0.01	180	0	0	0
bifenthrin	fat	0.02	2	1115	0	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 (sum of isomers)	fat	0.02	0.2	1115	1	0	0
chlorfluazuron	fat	0.01	not set	330	0	0	0
chlorpyrifos	fat	0.02	0.5	1115	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	1115	0	0	0
clothianidin	fat	0.01	0.02	180	0	0	0
coumaphos	fat	0.02	0.02	1115	0	0	0
cyantraniliprole	fat	0.01	0.01	180	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.5	1115	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.5	1115	0	0	0
cypermethrin (sum of isomers)	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	8	0	0
diafenthiuron	fat	0.01	not set	1115	0	0	0
diazinon	fat	0.02	0.7	1115	4	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	330	0	0	0
dimethoate	fat	0.02	0.05	1115	0	0	0
dinotefuran	fat	0.03	not set	1115	0	0	0
esfenvalerate	fat	0.02	1	1115	0	0	0
ethion	fat	0.02	2.5	1115	2	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
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 (sum of isomers)	fat	0.02	1	1115	0	0	0
fipronil	fat	0.02	0.1	1115	0	0	0
flonicamid-A	fat	0.01	0.02	180	0	0	0
fluazuron	fat	0.01	7	330	8	0	0
flubendiamide	fat	0.01	0.05	1115	1	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 (maldison)	fat	0.01	1	1115	0	0	0
melamine	kidney	0.01	no limit	330	0	0	0
metaflumizone	fat	0.01	not set	180	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
novaluron	fat	0.01	not set	330	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 (sum of isomers)	fat	0.02	1	1115	8	0	0
phosmet	fat	0.02	1	1115	0	0	0
pirimiphos-methyl	fat	0.02	0.05	1115	0	0	0
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	330	0	0	0
spinosad	fat	0.005	2	330	41	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	330	0	0	0

Table 9 Metals

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to \leq ½ MRL	> ½ MRL to \leq MRL	> MRL
antimony	liver	0.01	no limit	450	1	0	0
arsenic (total)	liver	0.05	no limit	450	1	0	0
cadmium	liver	0.01	1.25	450	365	0	0
lead	liver	0.01	0.5	450	218	1	0
mercury (total)	liver	0.01	no limit	450	10	0	0

Table 10 Mycotoxins

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to \leq ½ MRL	> ½ MRL to \leq MRL	> MRL
taleralol (beta-zearalanol)	liver	0.002	no limit	430	3	0	0
zearalanone	liver	0.002	no limit	430	2	0	0
zearalenol alpha	liver	0.002	no limit	430	15	0	0
zearalenol beta	liver	0.002	no limit	430	24	0	0
zearalenone	liver	0.002	no limit	430	3	0	0

Table 11 Other veterinary drugs

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to \leq ½ MRL	> ½ MRL to \leq MRL	> MRL
cimaterol	liver	0.0003	not set	430	0	0	0
clenbuterol	liver	0.0003	not set	430	0	0	0
flunixin	kidney	0.01	0.02	330	0	0	0
ketoprofen	kidney	0.01	0.05	330	0	0	0
mabuterol	liver	0.0003	not set	430	0	0	0
meloxicam	kidney	0.01	0.2	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	430	0	0	0
salbutamol	liver	0.001	not set	430	0	0	0
tolfenamic acid	kidney	0.005	0.01	330	0	0	0
zilpaterol	liver	0.0003	not set	430	0	0	0