Australian Government
Department of Agriculture and Water Resources

Beef residue testing annual datasets 2015–16

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	330	0	0	0
albendazole	liver	0.001	0.1	330	0	0	0
clorsulon	liver	0.08	not set	6	0	0	0
closantel	liver	0.05	not set	330	0	0	0
derquantel	fat	0.005	not set	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	fat	0.005	0.5	330	0	0	0
fenbendazole	liver	0.001	0.1	330	0	0	0
ivermectin	fat	0.005	0.04	330	0	0	0
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	330	0	0	0
monepantel sulphone	fat	0.005	not set	330	0	0	0
morantel	liver	0.001	2	330	0	0	0
moxidectin	fat	0.005	1	330	0	0	0
nitroxynil	liver	0.012	not set	6	0	0	0
oxfendazole	liver	0.001	3	330	0	0	0
oxibendazole	liver	0.001	not set	330	0	0	0
praziquantel	fat	0.005	not set	330	0	0	0
thiabendazole–A	liver	0.01	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	0.002	not defined	51	0	–	–
amoxicillin	kidney	0.01	0.01	970	0	0	0
AMOZ	retina	0.002	not defined	51	0	–	–
ampicillin	kidney	0.01	not set	970	0	0	0
amprolium	liver	0.01	not set	331	0	0	0
AOZ	retina	0.002	not defined	51	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	434	0	0	0
chlortetracycline	kidney	0.01	0.6	970	0	0	0
cloxacillin	kidney	0.05	not set	970	0	0	0
dihydrostreptomycin	kidney	0.1	0.3	970	0	0	0
doxycycline	kidney	0.01	not set	970	0	0	0
erythromycin	kidney	0.1	0.3	970	0	0	0
florfenicol	muscle	0.0043	0.3	434	0	0	0
gentamycin	kidney	0.1	not set	970	0	0	0
halofuginone	liver	0.01	0.03	331	0	0	0
lasalocid	liver	0.01	0.7	331	0	0	0
lincomycin	kidney	0.1	0.2	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
maduramicin	liver	0.01	not set	331	0	0	0
monensin	liver	0.01	0.05	331	0	1	0
narasin	liver	0.01	0.05	331	0	0	0
neomycin	kidney	0.1	10	970	0	0	0
nicarbazin	liver	0.01	not set	331	0	0	0
oleandomycin	kidney	0.2	0.1	970	0	0	0
oxytetracycline	kidney	0.01	0.6	970	0	0	0
salinomycin	liver	0.01	0.5	331	0	0	0
SEM	retina	0.002	not defined	51	0	–	–
semduramycin	liver	0.01	not set	331	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
thiamphenicol	muscle	0.0029	not set	434	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	1117	0	0	0
arochlor 1254	fat	0.03	not set	1117	0	0	0
arochlor 1260	fat	0.03	not set	1117	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
chlordane	fat	0.02	0.2	1117	0	0	0
DDT	fat	0.05	5	1117	0	0	0
endrin	fat	0.01	not set	1117	0	0	0
HCB	fat	0.02	1	1117	0	0	0
HCH	fat	0.02	0.3	1117	0	0	0
heptachlor	fat	0.02	0.2	1117	0	0	0
lindane	fat	0.01	2	1117	0	0	0
mirex	fat	0.02	not set	1117	0	0	0
pentachlorobenzene	fat	0.02	not set	1117	0	0	0

Table 4 Fluoroquinolones

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
norfloxacin	kidney	0.01	not set	330	0	0	0

Table 5 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	1117	0	0	0
carbendazim	fat	0.01	0.2	1117	0	0	0
cyproconazole	fat	0.02	0.03	1117	0	0	0
fluquinconazole	fat	0.01	0.5	1117	0	0	0
flutriafol	fat	0.02	0.05	1117	0	0	0
fluxapyroxad	fat	0.01	0.05	1117	0	0	0
procymidone	fat	0.02	0.2	1117	0	0	0
propiconazole	fat	0.02	0.1	1117	0	0	0
prothioconazole	fat	0.02	0.02	1117	0	0	0
quintozene	fat	0.02	not set	1117	0	0	0

Table 6 Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
ethofumesate	fat	0.02	0.5	1117	0	0	0
metolachlor	fat	0.02	0.05	1117	0	0	0
propachlor	fat	0.02	0.02	1117	0	0	0
pyrasulfotole	fat	0.01	0.01	1117	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	431	1	–	–
boldenone 17α	urine	0.001	not defined	431	2	–	–
boldenone 17β	urine	0.001	not defined	431	0	–	–
dienoestrol	liver	0.0002	not set	433	0	0	0
diethylstilboestrol	liver	0.0002	not set	433	0	0	0
hexoestrol	liver	0.0002	not set	433	0	0	0
methandriol	urine	0.005	not defined	431	0	–	–
nortestosterone-17 alpha	urine	0.001	not defined	431	0	–	–
nortestosterone-17 beta	urine	0.001	not defined	431	0	–	–
stanozolol	urine	0.001	not defined	431	0	–	–
trenbolone	liver	0.0005	0.01	433	0	0	0
zeranol	liver	0.002	0.02	433	0	0	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
bifenthrin	fat	0.02	2	1117	0	0	0
bioresmethrin	fat	0.02	not set	1117	0	0	0
carbaryl	fat	0.01	0.07	1117	0	0	0
chlorantraniliprole	fat	0.01	0.02	1117	0	0	0
chlorfenapyr	fat	0.02	0.05	1117	0	0	0
chlorfenvinphos	fat	0.02	0.2	1117	0	0	0
chlorfluazuron	fat	0.01	1	330	0	0	0
chlorpyrifos	fat	0.02	0.5	1117	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	1117	0	0	0
coumaphos	fat	0.02	0.02	1117	0	0	0
cyfluthrin	fat	0.02	0.5	1117	0	0	0
cyhalothrin	fat	0.02	0.5	1117	0	0	0
cypermethrin	fat	0.02	0.5	1117	0	0	0
cyromazine	kidney	0.01	0.05	330	0	0	0
deltamethrin	fat	0.02	0.5	1117	0	0	0
diafenthiuron	fat	0.01	not set	1117	0	0	0
diazinon	fat	0.02	0.7	1117	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
dichlorvos	fat	0.02	0.01	1117	0	0	0
dicofol	fat	0.01	not set	1117	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	1117	0	0	0
endosulfan	fat	0.02	not set	1117	0	0	0
esfenvalerate	fat	0.02	1	1117	0	0	0
ethion	fat	0.02	2.5	1117	0	0	0
famphur	fat	0.02	not set	1117	0	0	0
famphur oxygen-analogue	fat	0.02	not set	1117	0	0	0
fenitrothion	fat	0.02	0.05	1117	0	0	0
fenthion	fat	0.02	not set	1117	0	0	0
fenvalerate	fat	0.02	1	1117	0	0	0
fipronil	fat	0.02	0.1	1117	0	0	0
fluazuron	fat	0.01	7	330	0	0	0
flubendiamide	fat	0.01	0.05	1117	0	1	0
flumethrin	fat	0.02	0.2	1117	0	0	0
imidacloprid	fat	0.01	0.05	1117	0	0	0
indoxacarb	fat	0.02	1	1117	0	0	0
malathion	fat	0.01	1	1117	0	0	0
melamine	kidney	0.01	not set	330	0	0	0
methidathion	fat	0.02	0.5	1117	0	0	0
methoxychlor	fat	0.02	not set	1117	0	0	0
mevinphos	fat	0.01	not set	516	0	0	0
omethoate	fat	0.02	not set	1117	0	0	0
parathion-methyl	fat	0.02	not set	1117	0	0	0
permethrin	fat	0.02	1	1117	0	0	0
phosmet	fat	0.02	1	1117	0	0	0
pirimiphos-methyl	fat	0.02	0.05	1117	0	0	0
prothiofos	fat	0.01	not set	1117	0	0	0
pyraclofos	fat	0.02	not set	1117	0	0	0
spinetoram	fat	0.005	2	330	0	0	0
spinosad	fat	0.005	2	330	0	0	0
spirotetramat	fat	0.02	0.02	1117	0	0	0
sulfoxaflor	fat	0.01	not set	1117	0	0	0
tau-fluvalinate	fat	0.01	not set	1117	0	0	0
temephos	fat	0.02	5	1117	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 ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
antimony	liver	0.01	no limit	331	0	0	0
arsenic	liver	0.05	no limit	331	0	0	0
cadmium	liver	0.01	1.25	331	34	1	0
lead	liver	0.01	0.5	331	112	0	0
mercury	liver	0.01	no limit	331	4	0	0

Table 10 Mycotoxins

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
taleranol	liver	0.002	no limit	433	1	0	0
zearalanone	liver	0.002	no limit	433	1	0	0
zearalenol, alpha-	liver	0.002	no limit	433	16	0	0
zearalenol, beta-	liver	0.002	no limit	433	25	0	0
zearalenone	liver	0.002	no limit	433	6	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	432	0	0	0
clenbuterol	liver	0.0003	not set	432	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	432	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	432	0	0	0
salbutamol	liver	0.001	not set	432	0	0	0
tolfenamic acid	kidney	0.005	0.01	330	0	0	0
zilpaterol	liver	0.0003	not set	432	0	0	0