



Horse 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	not set	10	0	0	0
albendazole	liver	0.001	not set	20	0	0	0
clorsulon	liver	0.08	not set	20	0	0	0
derquantel	fat	0.001	not set	10	0	0	0
doramectin	fat	0.005	not set	10	0	0	0
emamectin	fat	0.005	0.01	10	0	0	0
eprinomectin B1a	fat	0.005	not set	10	0	0	0
fenbendazole	liver	0.001	not set	20	0	0	0
ivermectin H2B1a	fat	0.005	0.01	10	0	0	0
mebendazole	liver	0.005	0.02	20	0	0	0
milbemectin	fat	0.01	0.002	10	0	0	0
monepantel sulphone	fat	0.005	not set	10	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
moxidectin	fat	0.005	not set	10	0	0	0
nitroxylin	liver	0.012	not set	20	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	20	0	0	0
oxibendazole	liver	0.001	not set	20	0	0	0
oxyclozanide	liver	0.005	not set	20	0	0	0
praziquantel	fat	0.005	not set	10	0	0	0
thiabendazole-A	liver	0.006	0.2	20	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	10	0	–	–
amoxicillin	kidney	0.01	0.01	40	0	0	0
AMOZ	retina	0.002	not defined	10	0	–	–
ampicillin	kidney	0.01	0.01	40	0	0	0
AOZ	retina	0.002	not defined	10	0	–	–
apramycin	kidney	0.25	2	40	0	0	0
avilamycin	kidney	0.1	not set	40	0	0	0
benzyl G penicillin	kidney	0.01	0.06	40	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.2	not set	40	0	0	0
cefuroxime	kidney	0.05	not set	40	0	0	0
cephalonium	kidney	0.05	not set	40	0	0	0
chloramphenicol	muscle	0.0003	not set	10	0	0	0
chlortetracycline	kidney	0.01	not set	40	0	0	0
ciprofloxacin	kidney	0.005	not set	10	0	0	0
cloxacillin	kidney	0.05	not set	40	0	0	0
danofloxacin	kidney	0.005	not set	10	0	0	0
difloxacin	kidney	0.005	not set	10	0	0	0
dihydrostreptomycin	kidney	0.1	0.3	40	0	0	0
dimetridazole	muscle	0.0001	not set	10	0	0	0
doxycycline	kidney	0.01	not set	40	0	0	0
enrofloxacin	kidney	0.005	not set	10	0	0	0
erythromycin	kidney	0.1	0.3	40	0	0	0
florfenicol	muscle	0.001	not set	10	0	0	0
flumequine	kidney	0.005	not set	10	0	0	0
gatifloxacin	kidney	0.005	not set	10	0	0	0
gentamycin	kidney	0.1	not set	40	0	0	1
levofloxacin	kidney	0.005	not set	10	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
lincomycin	kidney	0.1	0.2	40	0	0	0
lomefloxacin	kidney	0.005	not set	10	0	0	0
marbofloxacin	kidney	0.005	not set	10	0	0	0
metronidazole	muscle	0.0001	not set	10	0	0	0
moxifloxacin	kidney	0.005	not set	10	0	0	0
nalidixic acid	kidney	0.005	not set	10	0	0	0
neomycin	kidney	0.1	not set	40	0	0	0
norfloxacin	kidney	0.005	not set	10	0	0	0
oleandomycin	kidney	0.2	0.1	40	0	0	0
orbifloxacin	kidney	0.005	not set	10	0	0	0
oxolinic acid	kidney	0.005	not set	10	0	0	0
oxytetracycline	kidney	0.01	not set	40	0	0	1
ronidazole	muscle	0.0001	not set	10	0	0	0
sarafloxacin	kidney	0.005	not set	10	0	0	0
SEM	retina	0.002	not defined	10	0	–	–
streptomycin	kidney	0.1	0.3	40	0	0	0
sulfachloropyridazine	kidney	0.05	not set	40	0	0	0
sulfadiazine	kidney	0.05	0.1	40	0	0	0
sulfadimethoxine	kidney	0.05	not set	40	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.05	0.1	40	0	0	0
sulfadoxine	kidney	0.05	0.1	40	0	0	0
sulfafurazole	kidney	0.05	not set	40	0	0	0
sulfamerazine	kidney	0.05	not set	40	0	0	0
sulfamethoxazole	kidney	0.05	not set	40	0	0	0
sulfamethoxydiazine (sulfameter)	kidney	0.05	not set	40	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	40	0	0	0
sulfapyridine	kidney	0.05	not set	40	0	0	0
sulfaquinoxaline	kidney	0.05	not set	40	0	0	0
sulfathiazole	kidney	0.05	not set	40	0	0	0
sulfatroxazole	kidney	0.05	0.1	40	0	0	0
tetracycline	kidney	0.01	not set	40	0	0	0
thiamphenicol	muscle	0.001	not set	10	0	0	0
tilmicosin	kidney	0.2	not set	40	0	0	0
trimethoprim	kidney	0.05	0.05	40	0	0	0
tulathromycin	kidney	0.3	not set	40	0	0	0
tylosin	kidney	0.1	not set	40	0	0	0
virginiamycin	kidney	0.2	not set	40	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	20	0	0	0
aroachlor 1254	fat	0.03	0.2	20	0	0	0
aroachlor 1260	fat	0.03	0.2	20	0	0	0
chlordane	fat	0.02	0.2	20	0	0	0
DDT	fat	0.05	5	20	0	0	0
endosulfan	fat	0.02	not set	20	0	0	0
endrin	fat	0.01	not set	20	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	20	0	0	0
HCH (BHC)	fat	0.02	0.3	20	0	0	0
heptachlor	fat	0.02	0.2	20	0	0	0
lindane (gamma-HCH)	fat	0.01	2	20	0	0	0
mirex	fat	0.02	not set	20	0	0	0
pentachlorobenzene	fat	0.02	not set	20	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
amisulbrom	fat	0.01	0.01	3	0	0	0
bixafen	fat	0.02	0.2	20	0	0	0
boscalid	fat	0.01	0.3	20	0	0	0
carbendazim	fat	0.01	0.2	20	0	0	0
cyproconazole	fat	0.02	0.03	20	0	0	0
difenoconazole	fat	0.01	0.05	3	0	0	0
fludioxonil	fat	0.01	0.05	3	0	0	0
fluopicolide	fat	0.01	0.01	3	0	0	0
fluopyram-A	fat	0.01	0.02	3	0	0	0
fluquinconazole	fat	0.01	0.5	20	0	0	0
flutriafol	fat	0.02	0.05	20	0	0	0
fluxapyroxad	fat	0.01	0.05	20	0	0	0
imazalil	fat	0.01	not set	3	0	0	0
mandestrobin	fat	0.01	not set	3	0	0	0
procymidone	fat	0.02	0.2	20	0	0	0
propamocarb	fat	0.01	0.01	3	0	0	0
propiconazole	fat	0.02	0.1	20	0	0	0
prothioconazole	fat	0.02	0.02	20	0	0	0
pyrimethanil	fat	0.01	0.05	3	0	0	0
pyriofenone	fat	0.01	0.01	3	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
quinoxifen	fat	0.01	0.1	3	0	0	0
quintozene	fat	0.02	0.2	20	0	0	0
tebuconazole	fat	0.01	0.1	3	0	0	0
trifloxystrobin	fat	0.01	0.05	3	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
cloquintocet	fat	0.01	0.1	3	0	0	0
ethofumesate	fat	0.02	0.5	20	0	0	0
indaziflam	fat	0.01	not set	3	0	0	0
metazachlor	fat	0.01	not set	20	0	0	0
metolachlor	fat	0.02	0.05	20	0	0	0
propachlor	fat	0.02	0.02	20	0	0	0
pyrasulfotole	fat	0.01	0.01	20	0	0	0
pyroxsulam	fat	0.01	0.01	3	0	0	0
saflufenacil-A	fat	0.01	0.01	3	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 set	10	0	0	0
betamethasone	liver	0.001	not set	10	0	0	0
boldenone 17-alpha	urine	0.001	not defined	10	0	–	–
boldenone 17-beta	urine	0.001	not defined	10	0	–	–
dexamethasone	liver	0.001	0.1	10	0	0	0
dienoestrol	liver	0.0002	not set	10	0	0	0
diethylstilboestrol	liver	0.0002	not set	10	0	0	0
flumethasone	liver	0.001	not set	10	0	0	0
hexoestrol	liver	0.0002	not set	10	0	0	0
methandriol	urine	0.005	not defined	10	0	0	0
methylprednisolone	liver	0.001	not set	10	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	10	1	–	–
nortestosterone 17-beta	urine	0.001	not defined	10	2	–	–
stanozolol	urine	0.001	not defined	10	0	–	–
trenbolone	liver	0.0005	not set	10	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	10	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
acetamiprid-A	fat	0.01	0.01	3	0	0	0
bifenthrin	fat	0.02	2	20	0	0	0
bioresmethrin	fat	0.02	not set	20	0	0	0
carbaryl	fat	0.01	0.07	20	0	0	0
chlorantraniliprole	fat	0.01	0.02	20	0	0	0
chlorfenapyr	fat	0.02	0.05	20	0	0	0
chlorfenvinphos	fat	0.02	not set	20	0	0	0
chlorpyrifos	fat	0.02	0.5	20	0	0	0
chlorpyrifos-methyl	fat	0.02	0.05	20	0	0	0
clothianidin	fat	0.01	0.02	3	0	0	0
coumaphos	fat	0.02	not set	20	0	0	0
cyantraniliprole	fat	0.01	0.01	3	0	0	0
cyfluthrin	fat	0.02	0.5	20	0	0	0
cyhalothrin	fat	0.02	0.5	20	0	0	0
cypermethrin	fat	0.02	0.05	20	0	0	0
deltamethrin	fat	0.02	not set	20	0	0	0
diafenthiuron	fat	0.01	0.02	20	0	0	0
diazinon	fat	0.02	0.7	20	0	0	0
dichlorvos	fat	0.02	0.01	20	0	0	0
dicofol	fat	0.01	not set	20	0	0	0
dimethoate	fat	0.02	0.05	20	0	0	0
dinotefuran	fat	0.03	0.02	20	0	0	0
esfenvalerate	fat	0.02	1	20	0	0	0
ethion	fat	0.02	not set	20	0	0	0
famphur	fat	0.02	not set	20	0	0	0
fenitrothion	fat	0.02	0.05	20	0	0	0
fenthion	fat	0.02	not set	20	0	0	0
fenvalerate	fat	0.02	1	20	0	0	0
fipronil	fat	0.02	0.1	20	0	0	0
flonicamid-A	fat	0.01	0.02	3	0	0	0
flubendiamide	fat	0.01	0.05	20	0	0	0
flumethrin	fat	0.02	0.1	20	0	0	0
imidacloprid	fat	0.01	0.05	20	0	0	0
indoxacarb	fat	0.02	1	20	0	0	0
malathion (maldison)	fat	0.01	1	20	0	0	0
metaflumizone	fat	0.01	not set	3	0	0	0
methidathion	fat	0.02	0.5	20	0	0	0
methoxychlor	fat	0.02	not set	20	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
mevinphos	fat	0.01	0.05	20	0	0	0
omethoate	fat	0.02	0.05	20	0	0	0
parathion-methyl	fat	0.02	not set	20	0	0	0
permethrin	fat	0.02	1	20	0	0	0
phosmet	fat	0.02	not set	20	0	0	0
pirimiphos-methyl	fat	0.02	0.05	20	0	0	0
prothiofos	fat	0.01	not set	20	0	0	0
pyraclofos	fat	0.02	not set	20	0	0	0
spinetoram	fat	0.005	2	10	0	0	0
spinosad	fat	0.005	2	10	0	0	0
spirotetramat	fat	0.02	0.02	20	0	0	0
sulfoxaflor	fat	0.01	0.2	20	0	0	0
tau-fluvalinate	fat	0.01	not set	20	0	0	0
temephos	fat	0.02	not set	20	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	muscle	0.01	no limit	20	0	0	0
arsenic (total)	muscle	0.05	no limit	20	1	0	0
cadmium	muscle	0.01	no limit	20	16	0	0
lead	muscle	0.01	no limit	20	0	0	0
mercury (total)	muscle	0.01	no limit	20	0	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
taleralanol (beta-zearalanol)	liver	0.002	no limit	10	0	0	0
zearalanone	liver	0.002	no limit	10	0	0	0
zearalenol alpha	liver	0.002	no limit	10	0	0	0
zearalenol beta	liver	0.002	no limit	10	0	0	0
zearalenone	liver	0.002	no limit	10	0	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
cimaterol	liver	0.0003	not set	5	0	0	0
clenbuterol	liver	0.0003	not set	5	0	0	0
flunixin	kidney	0.01	not set	10	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
ketoprofen	kidney	0.01	not set	10	0	0	0
mabuterol	liver	0.0003	not set	5	0	0	0
meloxicam	kidney	0.01	not set	10	0	0	0
oxyphenbutazone	kidney	0.01	not set	10	0	0	0
phenylbutazone	kidney	0.01	not set	10	0	0	0
ractopamine	liver	0.0003	not set	5	0	0	0
salbutamol	liver	0.001	not set	5	0	0	0
tolfenamic acid	kidney	0.005	not set	10	0	0	0
zilpaterol	liver	0.0003	not set	5	0	0	0

Table 11 Sedatives

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> LOR to ≤ ½ MRL	> ½ MRL to ≤ MRL	> MRL
acepromazine	liver	0.001	not set	10	0	0	0
azaperone	liver	0.001	not set	10	0	0	0
carazolol	liver	0.001	not set	10	0	0	0
chlorpromazine	liver	0.005	not set	10	0	0	0
propionylpromazine	liver	0.001	not set	10	0	0	0
xylazine	liver	0.001	not set	10	0	0	0