



Horse residue testing annual datasets 2019–20

National Residue Survey (NRS), Department of Agriculture, Water and the Environment

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)	Number of samples tested	>LOR to ≤½MRL	>½MRL 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
closantel	liver	0.05	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	0.002	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
fenbendazole sulfone	liver	0.001	not set	20	0	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
fluensulfone	fat	0.01	0.01	12	0	0	0
ivermectin H2B1a	fat	0.005	0.01	10	0	0	0
levamisole	liver	0.001	1	20	0	0	0
mebendazole	liver	0.005	0.02	20	0	0	0
mebendazole, 5-hydroxy-	liver	0.005	not set	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
morantel	liver	0.001	not set	20	0	0	0
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	liver	0.006	0.2	20	0	0	0

Table 2: Antibiotics

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
AHD	retina x 2	0.002	not defined	11	0	–	–
amoxicillin	kidney	0.01	0.01	40	0	0	0
AMOZ	retina x 2	0.002	not defined	11	0	–	–
ampicillin	kidney	0.01	0.01	40	0	0	0
AOZ	retina x 2	0.002	not defined	11	0	–	–
apramycin	kidney	0.1	2	40	0	0	0
avilamycin	kidney	0.05	not set	40	0	0	0
benzyl G penicillin	kidney	0.01	0.06	40	0	0	0
ceftiofur (desfuoylceftiofur)	kidney	0.1	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	0.01	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

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
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	0
levofloxacin	kidney	0.005	not set	10	0	0	0
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	0.1	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	0
ronidazole	muscle	0.0001	not set	10	0	0	0
sarafloxacin	kidney	0.005	not set	10	0	0	0
SEM	retina x 2	0.002	not defined	11	0	–	–
streptomycin	kidney	0.1	0.3	40	0	0	0
sulfachloropyridazine	kidney	0.05	not set	40	0	0	0
sulfadiazine	kidney	0.02	0.1	40	0	0	0
sulfadimethoxine	kidney	0.05	not set	40	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.02	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

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
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	0.1	not set	40	0	0	0
trimethoprim	kidney	0.01	0.05	40	0	0	0
tulathromycin	kidney	0.1	not set	40	0	0	0
tylosin	kidney	0.1	not set	40	0	0	0
virginiamycin	kidney	0.1	not set	40	0	0	0

Table 3: Contaminants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number 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
arochlor 1254	fat	0.03	0.2	20	0	0	0
arochlor 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	1	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	1	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)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
amisulbrom	fat	0.01	0.01	20	0	0	0
azoxystrobin	fat	0.01	0.02	12	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

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
difenoconazole	fat	0.01	0.05	20	0	0	0
epoxiconazole	fat	0.01	0.01	12	0	0	0
fenpyrazamine	fat	0.01	0.01	12	0	0	0
fludioxonil	fat	0.01	0.05	20	0	0	0
fluopicolide	fat	0.01	0.01	20	0	0	0
fluopyram	fat	0.01	0.1	20	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	20	0	0	0
isopyrazam	fat	0.01	0.01	12	0	0	0
mandestrobin	fat	0.01	0.02	20	0	0	0
procymidone	fat	0.02	0.2	20	0	0	0
propamocarb	fat	0.01	0.01	20	0	0	0
propiconazole	fat	0.02	0.1	20	0	0	0
prothioconazole	fat	0.02	0.02	20	0	0	0
pydiflumetofen	fat	0.01	0.01	12	0	0	0
pyraclostrobin	fat	0.01	0.05	12	0	0	0
pyrimethanil	fat	0.01	0.05	20	0	0	0
pyriofenone	fat	0.01	0.01	20	0	0	0
quinoxifen	fat	0.01	0.1	20	0	0	0
quintozene	fat	0.02	0.2	20	0	0	0
spiroxamine	fat	0.01	0.05	12	0	0	0
tebuconazole	fat	0.01	0.1	20	0	0	0
trifloxystrobin	fat	0.01	0.05	20	0	0	0

Table 5: Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
amicarbazone	fat	0.01	0.01	12	0	0	0
cloquintocet	fat	0.01	0.1	20	0	0	0
ethofumesate	fat	0.02	0.5	20	0	0	0
florpyrauxifen-benzyl	fat	0.01	0.02	12	0	0	0
indaziflam	fat	0.01	not set	20	0	0	0
metamitron	fat	0.01	0.05	12	0	0	0
metazachlor	fat	0.01	0.05	20	0	0	0
metolachlor	fat	0.02	0.05	20	0	0	0

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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	20	0	0	0
saflufenacil	fat	0.01	0.01	20	0	0	0
topramezone	fat	0.01	0.01	12	0	0	0

Table 6: Hormones

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number 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	12	0	0	0
boldenone 17-alpha	urine	0.001	not set	10	0	0	0
boldenone 17-beta	urine	0.001	not defined	10	0	-	-
dexamethasone	liver	0.001	0.1	12	0	0	0
dienoestrol	liver	0.0002	not set	11	0	0	0
diethylstilboestrol	liver	0.0002	not set	11	0	0	0
flumethasone	liver	0.001	not set	12	0	0	0
hexoestrol	liver	0.0002	not set	11	0	0	0
methandriol	urine	0.005	not defined	10	0	-	-
methylprednisolone	liver	0.001	not set	12	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	10	0	-	-
nortestosterone 17-beta	urine	0.001	not defined	10	0	-	-
stanozolol	urine	0.001	not defined	10	0	-	-
trenbolone	liver	0.0005	not set	11	0	0	0
triamcinolone	liver	0.001	not set	12	0	0	0
triamcinolone acetonide	liver	0.001	not set	12	0	0	0
zeranol (alpha-zearalanol)	liver	0.002	not set	11	0	0	0

Table 7: Insecticides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
acetamiprid	fat	0.01	0.01	20	0	0	0
afidopyropen	fat	0.012	0.1	12	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

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chlorfenvinphos (sum of isomers)	fat	0.02	not set	20	0	0	0
chlorpyrifos	fat	0.01	0.5	20	0	0	0
chlorpyrifos-methyl	fat	0.01	0.05	20	0	0	0
clothianidin	fat	0.01	0.02	20	0	0	0
coumaphos	fat	0.02	not set	20	0	0	0
cyantraniliprole	fat	0.01	0.01	20	0	0	0
cyclaniliprole	fat	0.01	0.01	12	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.5	20	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.5	20	0	0	0
cypermethrin (sum of isomers)	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
famphur oxygen-analogue	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 (sum of isomers)	fat	0.02	1	20	0	0	0
fipronil	fat	0.02	0.1	20	0	0	0
flonicamid	fat	0.01	0.02	20	0	0	0
flubendiamide	fat	0.01	0.05	20	0	0	0
flumethrin	fat	0.02	0.1	20	0	0	0
flupyradifurone	fat	0.01	not set	12	0	0	0
imidacloprid	fat	0.01	0.05	20	0	0	0
indoxacarb	fat	0.02	3	20	0	0	0
malathion (maldison)	fat	0.01	1	20	0	0	0
metaflumizone	fat	0.01	not set	20	0	0	0
methidathion	fat	0.02	0.5	20	0	0	0
methoxychlor	fat	0.02	not set	20	0	0	0
mevinphos	fat	0.01	0.05	20	0	0	0
omethoate	fat	0.02	0.05	20	0	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
parathion-methyl	fat	0.02	not set	20	0	0	0
permethrin (sum of isomers)	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	0.05	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)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
antimony	muscle	0.01	no limit	21	0	0	0
arsenic (total)	muscle	0.05	no limit	21	0	0	0
cadmium	muscle	0.01	no limit	21	13	0	0
lead	muscle	0.01	no limit	21	0	0	0
mercury (total)	muscle	0.01	no limit	21	0	0	0

Table 9: Mycotoxins

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
taleranol (beta-zearalanol)	liver	0.002	no limit	11	0	0	0
zearalanone	liver	0.002	no limit	11	0	0	0
zearalenol alpha	liver	0.002	no limit	11	0	0	0
zearalenol beta	liver	0.002	no limit	11	0	0	0
zearalenone	liver	0.002	no limit	11	0	0	0

Table 10: Other Veterinary Drugs

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number 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

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq MRL	>MRL
ketoprofen	kidney	0.01	not set	10	0	0	0
mabuterol	liver	0.0003	not set	5	0	0	0
meloxicam	kidney	0.005	not set	10	0	0	0
oxyphenbutazone	kidney	0.005	not set	10	0	0	0
phenylbutazone	kidney	0.005	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)	Number of samples tested	>LOR to $\leq \frac{1}{2}$ MRL	> $\frac{1}{2}$ MRL to \leq 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