



Pig residue testing annual datasets 2022-23

National Residue Survey (NRS), Department of Agriculture, Fisheries and Forestry

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	0.02	251	0	0	0
derquantel	Fat	0.001	not set	251	0	0	0
doramectin	Fat	0.005	0.1	251	0	0	0
emamectin	Fat	0.002	0.01	251	0	0	0
eprinomectin	Fat	0.005	not set	251	0	0	0
ivermectin	Fat	0.005	0.02	251	0	0	0
milbemectin	Fat	0.01	0.002	251	0	0	0
monepantel sulphone	Fat	0.005	not set	251	0	0	0
moxidectin	Fat	0.005	not set	251	0	0	0
praziquantel	Fat	0.005	not set	251	0	0	0

Table 2: ANTIBIOTICS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amoxicillin	Kidney	0.01	0.01	250	0	0	0
ampicillin	Kidney	0.01	not set	250	0	0	0
apramycin	Kidney	0.05	2	250	0	0	0
avilamycin	Kidney	0.05	not set	250	0	0	0
benzyl G penicillin	Kidney	0.01	0.06	250	0	0	0
carbadox	Liver	0.005	not set	250	0	0	0
ceftiofur (desfuroylceftiofur)	Kidney	0.1	not set	250	0	0	0
cefuroxime	Kidney	0.05	not set	250	0	0	0
cephalonium	Kidney	0.005	not set	250	0	0	0
chloramphenicol	Muscle	0.0001	not set	250	0	0	0
chlortetracycline	Kidney	0.01	0.6	250	59	2	0
cloxacillin	Kidney	0.005	not set	250	0	0	0
dihydrostreptomycin	Kidney	0.05	0.3	250	0	0	0
dimetridazole	Muscle	0.0001	not set	250	0	0	0
doxycycline	Kidney	0.01	not set	250	0	0	0
erythromycin	Kidney	0.05	0.3	250	0	0	0
florfenicol	Muscle	0.001	0.5	250	2	0	0
gentamycin	Kidney	0.05	not set	250	0	0	0
lincomycin	Kidney	0.05	0.2	250	0	0	0
metronidazole	Muscle	0.0001	not set	250	0	0	0
neomycin	Kidney	0.05	10	250	1	0	0
olaquinox	Liver	0.005	0.3	250	0	0	0

oleandomycin	Kidney	0.05	0.1	250	0	0	0
oxytetracycline	Kidney	0.01	0.6	250	0	0	0
ronidazole	Muscle	0.0001	not set	250	0	0	0
streptomycin	Kidney	0.05	0.3	250	0	0	0
sulfachloropyridazine	Kidney	0.02	not set	250	0	0	0
sulfadiazine	Kidney	0.01	0.1	250	2	1	1
sulfadimethoxine	Kidney	0.02	not set	250	0	0	0
sulfadimidine (sulfamethazine)	Kidney	0.01	0.1	250	0	0	0
sulfadoxine	Kidney	0.02	0.1	250	0	0	0
sulfafurazole	Kidney	0.02	not set	250	0	0	0
sulfamerazine	Kidney	0.02	not set	250	0	0	0
sulfamethoxazole	Kidney	0.02	not set	250	0	0	0
sulfamethoxydiazine (sulfameter)	Kidney	0.02	not set	250	0	0	0
sulfamethoxypyridazine	Kidney	0.02	not set	250	0	0	0
sulfapyridine	Kidney	0.02	not set	250	0	0	0
sulfaquinoxaline	Kidney	0.02	not set	250	0	0	0
sulfathiazole	Kidney	0.02	not set	250	0	0	0
sulfatroxazole	Kidney	0.02	0.1	250	0	0	0
tetracycline	Kidney	0.01	not set	250	0	0	2
thiamphenicol	Muscle	0.001	not set	250	0	0	0
tilmicosin	Kidney	0.05	1	250	0	0	0
trimethoprim	Kidney	0.01	0.05	250	3	0	1
tulathromycin	Kidney	0.05	3	250	0	0	0
tylosin	Kidney	0.1	0.2	250	0	0	0
virginiamycin	Kidney	0.005	not set	250	0	0	0

*In some instances, tetracycline may be present as an impurity in a chlortetracycline or oxytetracycline product and is not considered to be a violative residue.

Table 3: ANTICOCCIDIALS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amprolium	Liver	0.01	not set	250	0	0	0
decoquinate	Liver	0.002	not set	250	0	0	0
diclazuril	Liver	0.01	not set	250	0	0	0
halofuginone	Liver	0.01	not set	250	0	0	0
lasalocid	Liver	0.01	0.7	250	0	0	0
maduramicin	Liver	0.002	not set	250	0	0	0
monensin	Liver	0.01	not set	250	0	0	0
narasin	Liver	0.01	not set	250	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	Liver	0.01	not set	250	0	0	0
salinomycin	Liver	0.002	0.1	250	0	0	0
semduramycin	Liver	0.002	not set	250	0	0	5
toltrazuril	Liver	0.01	2	250	10	0	0

Table 4: CONTAMINANTS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
aldrin and dieldrin (HHDN+HEOD)	Fat	0.02	0.2	251	1	0	0
arochlor 1254	Fat	0.03	0.2	251	0	0	0
arochlor 1260	Fat	0.03	0.2	251	0	0	0
chlordane	Fat	0.02	0.2	251	0	0	0
DDT	Fat	0.05	5	251	2	0	0
endosulfan	Fat	0.02	not set	251	0	0	0
endrin	Fat	0.01	not set	251	0	0	0
HCB (hexachlorobenzene)	Fat	0.02	1	251	0	0	0
HCH (BHC)	Fat	0.02	0.3	251	0	0	0
heptachlor	Fat	0.02	0.2	251	0	0	0
lindane (gamma-HCH)	Fat	0.01	2	251	0	0	0
mirex	Fat	0.02	not set	251	0	0	0
pentachlorobenzene	Fat	0.02	not set	251	0	0	0

Table 5: DIOXINS

Chemical	Matrix	LOR (pg/g)	MRL (pg/g)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
Dioxin-like PCBs Upper Bound	Fat	0	no limit	6	6	0	0
Dioxins+Furans Upper Bound	Fat	0	no limit	6	6	0	0
Dioxins+Furans+Dioxin-likePCBs Upper Bound	Fat	0	no limit	6	6	0	0

*pg TEQ/g (fat) expressed on an upper bound basis.

Table 6: FUNGICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amisulbrom	Fat	0.01	0.01	251	0	0	0
azoxystrobin	Fat	0.01	0.02	251	0	0	0
benzovindiflupyr	Fat	0.01	0.01	251	0	0	0

bixafen	Fat	0.02	0.2	251	0	0	0
boscalid	Fat	0.01	0.3	251	0	0	0
carbendazim	Fat	0.01	0.2	251	0	0	0
cyproconazole	Fat	0.02	0.03	251	0	0	0
difenoconazole	Fat	0.01	0.05	251	0	0	0
epoxiconazole	Fat	0.01	0.01	251	0	0	0
fenhexamid	Fat	0.01	0.05	251	0	0	0
fenpyrazamine	Fat	0.01	0.01	251	0	0	0
fludioxonil	Fat	0.01	0.05	251	0	0	0
fluopicolide	Fat	0.01	0.01	251	0	0	0
fluopyram	Fat	0.01	0.1	251	0	0	0
fluquinconazole	Fat	0.01	0.5	251	0	0	0
flutriafol	Fat	0.02	0.05	251	0	1	0
fluxapyroxad	Fat	0.01	0.05	251	0	0	0
imazalil	Fat	0.01	not set	251	0	0	0
isofetamid	Fat	0.01	0.02	251	0	0	0
isopyrazam	Fat	0.01	0.005	251	0	0	0
mandestrobin	Fat	0.01	0.02	251	0	0	0
mefentrifluconazole	Fat	0.01	0.2	251	0	0	0
procymidone	Fat	0.02	0.2	251	0	0	0
propamocarb	Fat	0.01	0.01	251	0	0	0
propiconazole	Fat	0.02	0.1	251	0	0	0
proquinazid	Fat	0.01	0.01	251	0	0	0
prothioconazole	Fat	0.02	0.02	251	0	0	0
pydiflumetofen	Fat	0.01	0.02	251	0	0	0
pyraclostrobin	Fat	0.01	0.05	251	0	0	0
pyrimethanil	Fat	0.01	0.05	251	0	0	0
pyriofenone	Fat	0.01	0.01	251	0	0	0
quinoxifen	Fat	0.01	0.1	251	0	0	0
quintozene	Fat	0.02	0.2	251	0	0	0
spiroxamine	Fat	0.01	0.05	251	0	0	0
tebuconazole	Fat	0.01	0.1	251	0	0	0
trifloxystrobin	Fat	0.01	0.05	251	0	0	0

Table 7: 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
amicarbazon	Fat	0.01	0.01	251	0	0	0
cinmethylin	Fat	0.01	0.01	251	0	0	0
cloquintocet-mexyl	Fat	0.01	0.1	251	0	0	0
ethofumesate	Fat	0.02	0.5	251	0	0	0
florpyrauxifen-benzyl	Fat	0.01	0.02	251	0	0	0
indaziflam	Fat	0.01	not set	251	0	0	0
metamitron	Fat	0.01	0.05	251	0	0	0
metazachlor	Fat	0.01	0.05	251	0	0	0
metolachlor	Fat	0.02	0.05	251	0	0	0
propachlor	Fat	0.02	0.02	251	0	0	0
pyrasulfotole	Fat	0.01	0.01	251	0	0	0
pyroxsulam	Fat	0.01	0.01	251	0	0	0
saflufenacil	Fat	0.01	0.01	251	0	0	0
topramezone	Fat	0.01	0.01	251	0	0	0
trifludimoxazin	Fat	0.01	0.01	251	0	0	0

Table 8: 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
dienoestrol	Liver	0.0002	not set	250	0	0	0
diethylstilboestrol	Liver	0.0002	not set	250	0	0	0
hexoestrol	Liver	0.0002	not set	250	0	0	0
trenbolone	Liver	0.0005	not set	250	0	0	0
zeranol (alpha-zearalanol)	Liver	0.002	not set	250	0	0	0

Table 9: 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
acequinocyl	Fat	0.01	0.02	251	0	0	0
acetamiprid	Fat	0.01	0.01	251	0	0	0
afidopyropen	Fat	0.012	0.1	251	0	0	0
bifenthrin	Fat	0.02	2	251	0	0	0
bioresmethrin	Fat	0.02	not set	251	0	0	0
buprofezin	Fat	0.01	0.05	251	0	0	0
carbaryl	Fat	0.01	0.07	251	0	0	0
chlorantraniliprole	Fat	0.01	0.02	251	0	0	0

chlorfenapyr	Fat	0.02	0.05	251	0	0	0
chlorfenvinphos	Fat	0.005	not set	251	0	0	0
chlorfluazuron	Fat	0.01	not set	251	0	0	0
chlorpyrifos	Fat	0.01	0.5	251	0	0	0
chlorpyrifos-methyl	Fat	0.01	0.05	251	0	0	0
clothianidin	Fat	0.01	0.02	251	0	0	0
coumaphos	Fat	0.02	not set	251	0	0	0
cyantraniliprole	Fat	0.01	0.01	251	0	0	0
cyclaniliprole	Fat	0.01	0.01	251	0	0	0
cyfluthrin	Fat	0.02	0.5	251	0	0	0
cyhalothrin	Fat	0.02	0.5	251	0	0	0
cypermethrin	Fat	0.02	0.05	251	0	0	0
cyromazine	Kidney	0.01	0.05	250	0	0	0
deltamethrin	Fat	0.02	0.1	251	0	0	0
diafenthiuron	Fat	0.01	0.02	251	0	0	0
diazinon	Fat	0.02	0.7	251	0	0	0
dichlorvos	Fat	0.02	0.01	251	0	0	0
dicofol	Fat	0.01	not set	251	0	0	0
dicyclanil	Kidney	0.01	not set	250	0	0	0
diflubenzuron	Fat	0.01	not set	251	0	0	0
dimethoate	Fat	0.02	0.05	251	0	0	0
dinotefuran	Fat	0.03	0.02	251	0	0	0
ethion	Fat	0.02	not set	251	0	0	0
etofenprox	Fat	0.01	0.01	251	0	0	0
famphur	Fat	0.02	not set	251	0	0	0
famphur oxygen-analogue	Fat	0.02	not set	251	0	0	0
fenitrothion	Fat	0.02	0.05	251	0	0	0
fenthion	Fat	0.02	not set	251	0	0	0
fenvalerate	Fat	0.02	1	251	0	0	0
fipronil	Fat	0.01	0.1	251	0	0	0
flonicamid	Fat	0.01	0.02	251	0	0	0
fluazuron	Fat	0.01	not set	251	0	0	0
flubendiamide	Fat	0.01	0.05	251	0	0	0
fluensulfone	Fat	0.01	0.01	251	0	0	0
flumethrin	Fat	0.02	not set	251	0	0	0
flupyradifurone	Fat	0.01	0.1	251	0	0	0
fluralaner	Fat	0.01	not set	251	0	0	0
imidacloprid	Fat	0.01	0.05	251	0	0	0
indoxacarb	Fat	0.02	3	251	0	0	0
malathion	Fat	0.01	1	251	0	0	0
melamine	Kidney	0.01	2.5	250	1	0	0
metaflumizone	Fat	0.01	not set	251	0	0	0
methidathion	Fat	0.02	not set	251	0	0	0
methoxychlor	Fat	0.02	not set	251	0	0	0
mevinphos	Fat	0.01	0.05	251	0	0	0
novaluron	Fat	0.01	0.1	251	0	0	0
omethoate	Fat	0.02	0.05	251	0	0	0
parathion-methyl	Fat	0.02	not set	251	0	0	0
permethrin	Fat	0.02	1	251	0	0	0
phosmet	Fat	0.02	0.1	251	0	0	0
pirimiphos-methyl	Fat	0.02	0.05	251	0	0	0
prothiofos	Fat	0.01	not set	251	0	0	0
pyraclofos	Fat	0.02	not set	251	0	0	0
pyriproxyfen	Fat	0.01	0.02	251	0	0	0
spinetoram	Fat	0.005	2	251	0	0	0
spinosad	Fat	0.005	2	251	49	0	0
spirotetramat	Fat	0.01	0.02	251	0	0	0
sulfoxaflor	Fat	0.01	0.2	251	0	0	0
tau-fluvalinate	Fat	0.01	not set	251	0	0	0
temephos	Fat	0.02	not set	251	0	0	0
triflumuron	Fat	0.01	0.05	251	0	0	0

Table 10: METALS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
antimony	Liver	0.01	no limit	250	2	0	0
arsenic (total)	Liver	0.05	no limit	250	0	0	0
cadmium	Liver	0.01	1.25	250	151	0	0
lead	Liver	0.01	0.5	250	21	0	0
mercury (total)	Liver	0.01	no limit	250	10	0	0

Table 11: MYCOTOXINS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
taleranol (beta-zearalanol)	Liver	0.002	no limit	250	0	0	0
zearalanone	Liver	0.002	no limit	250	0	0	0
zearalenol alpha	Liver	0.002	no limit	250	0	0	0
zearalenol beta	Liver	0.002	no limit	250	0	0	0
zearalenone	Liver	0.002	no limit	250	0	0	0

Table 12: OTHER VETERINARY DRUGS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
cimaterol	Liver	0.0003	not set	250	0	0	0
clenbuterol	Liver	0.0003	not set	250	0	0	0
flunixin	Kidney	0.01	not set	250	0	0	0
ketoprofen	Kidney	0.01	not set	250	0	0	0
mabuterol	Liver	0.0003	not set	250	0	0	0
meloxicam	Kidney	0.005	0.01	250	0	0	0
oxyphenbutazone	Kidney	0.005	not set	250	0	0	0
phenylbutazone	Kidney	0.005	not set	250	0	0	0
ractopamine	Liver	0.0003	0.2	250	26	0	0
salbutamol	Liver	0.001	not set	250	0	0	0
tolfenamic acid	Kidney	0.005	0.01	250	0	0	0
zilpaterol	Liver	0.0003	not set	250	0	0	0