Australian Government

Department of Agriculture, Fisheries and Forestry

Pig residue testing annual datasets 2021-22

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.

Disclaimer

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	253	0	0	0
derquantel	Fat	0.001	not set	253	0	0	0
doramectin	Fat	0.005	0.1	253	0	0	0
emamectin	Fat	0.002	0.01	253	0	0	0
eprinomectin	Fat	0.005	not set	253	0	0	0
ivermectin	Fat	0.005	0.02	253	0	0	1
milbemectin	Fat	0.01	0.002	253	0	0	0
monepantel sulphone	Fat	0.005	not set	253	0	0	0
moxidectin	Fat	0.005	not set	253	0	0	0
praziquantel	Fat	0.005	not set	253	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	251	0	0	0
ampicillin	Kidney	0.005	not set	251	0	0	0
apramycin	Kidney	0.05	2	251	0	0	0
avilamycin	Kidney	0.05	not set	251	0	0	0
benzyl G penicillin	Kidney	0.01	0.06	251	0	0	0
carbadox	Liver	0.005	not set	251	0	0	0
ceftiofur (desfuroylceftiofur)	Kidney	0.1	not set	251	0	0	0
cefuroxime	Kidney	0.05	not set	251	0	0	0
cephalonium	Kidney	0.005	not set	251	0	0	0
chloramphenicol	Muscle	0.0003	not set	254	0	0	0
chlortetracycline	Kidney	0.01	0.6	251	54	2	1
cloxacillin	Kidney	0.005	not set	251	0	0	0
dihydrostreptomycin	Kidney	0.05	0.3	251	0	0	0
dimetridazole	Muscle	0.0001	not set	254	0	0	0
doxycycline	Kidney	0.01	not set	251	0	0	0
erythromycin	Kidney	0.05	0.3	251	0	0	0
florfenicol	Muscle	0.001	0.5	254	0	0	0
gentamycin	Kidney	0.05	not set	251	0	0	0
lincomycin	Kidney	0.05	0.2	251	0	0	0
metronidazole	Muscle	0.0001	not set	254	0	0	0
neomycin	Kidney	0.05	10	251	0	0	0
olaquindox	Liver	0.005	0.3	251	0	0	0
oleandomycin	Kidney	0.05	0.1	251	0	0	0
oxytetracycline	Kidney	0.01	0.6	251	17	0	0
ronidazole	Muscle	0.0001	not set	254	0	0	0
streptomycin	Kidney	0.05	0.3	251	0	0	0
sulfachloropyridazine	Kidney	0.02	not set	251	0	0	0
sulfadiazine	Kidney	0.01	0.1	251	0	0	0
sulfadimethoxine	Kidney	0.02	not set	251	0	0	0
sulfadimidine (sulfamethazine)	Kidney	0.01	0.1	251	0	0	0
sulfadoxine	Kidney	0.02	0.1	251	0	0	0
sulfafurazole	Kidney	0.02	not set	251	0	0	0
sulfamerazine	Kidney	0.02	not set	251	0	0	0
sulfamethoxazole	Kidney	0.02	not set	251	0	0	0
sulfamethoxydiazine (sulfameter)	Kidney	0.02	not set	251	0	0	0
sulfamethoxypyridazine	Kidney	0.02	not set	251	0	0	0
sulfapyridine	Kidney	0.02	not set	251	0	0	0
sulfaquinoxaline	Kidney	0.02	not set	251	0	0	0
sulfathiazole	Kidney	0.02	not set	251	0	0	0

sulfatroxazole	Kidney	0.02	0.1	251	0	0	0
tetracycline	Kidney	0.01	not set	251	0	0	2*
thiamphenicol	Muscle	0.001	not set	254	0	0	0
tilmicosin	Kidney	0.05	1	251	1	0	0
trimethoprim	Kidney	0.01	0.05	251	0	0	0
tulathromycin	Kidney	0.1	3	251	1	0	0
tylosin	Kidney	0.1	0.2	251	0	0	0
virginiamycin	Kidney	0.005	not set	251	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	251	0	0	0
decoquinate	Liver	0.002	not set	251	0	0	3
diclazuril	Liver	0.01	not set	251	0	0	0
halofuginone	Liver	0.01	not set	251	0	0	0
lasalocid	Liver	0.01	0.7	251	0	0	0
maduramicin	Liver	0.002	not set	251	0	0	0
monensin	Liver	0.01	not set	251	0	0	0
narasin	Liver	0.01	not set	251	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	Liver	0.01	not set	251	0	0	0
salinomycin	Liver	0.002	0.1	251	3	0	0
semduramycin	Liver	0.002	not set	251	0	0	0
toltrazuril	Liver	0.01	2	251	8	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	253	0	0	0
arochlor 1254	Fat	0.03	0.2	253	0	0	0
arochlor 1260	Fat	0.03	0.2	253	0	0	0
chlordane	Fat	0.02	0.2	253	0	0	0
DDT	Fat	0.05	5	253	0	0	0
endosulfan	Fat	0.02	not set	253	0	0	0
endrin	Fat	0.01	not set	253	0	0	0
HCB	Fat	0.02	1	253	0	0	0
HCH	Fat	0.02	0.3	253	0	0	0
heptachlor	Fat	0.02	0.2	253	0	0	0
lindane (gamma-HCH)	Fat	0.01	2	253	0	0	0
mirex	Fat	0.02	not set	253	0	0	0
pentachlorobenzene	Fat	0.02	not set	253	0	0	0

Table 5: DIOXINS

Chemical	Matrix	LOR (pg/g)	EU MRL (pg/g))	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
Dioxin-like PCBs Upper Bound	Fat	1.0	2.5	5	0	0	0
Dioxins+Furans Upper Bound	Fat	1.0	1.0	5	0	0	0
Dioxins+Furans+Dioxin-likePCBs Upper Bound	Fat	1.0	1.25	5	0	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	253	0	0	0
azoxystrobin	Fat	0.01	0.02	253	0	0	0
bixafen	Fat	0.01	0.2	253	0	0	0
boscalid	Fat	0.01	0.3	253	0	0	0
carbendazim	Fat	0.01	0.2	253	0	0	0
cyproconazole	Fat	0.02	0.03	253	0	0	0
difenoconazole	Fat	0.01	0.05	253	0	0	0
epoxiconazole	Fat	0.01	0.01	253	0	0	0
fenpyrazamine	Fat	0.01	0.01	253	0	0	0
fludioxonil	Fat	0.01	0.05	253	0	0	0
fluopicolide	Fat	0.01	0.01	253	0	0	0
fluopyram	Fat	0.01	0.1	253	0	0	0
fluquinconazole	Fat	0.01	0.5	253	0	0	0
flutriafol	Fat	0.02	0.05	253	0	0	0
fluxapyroxad	Fat	0.01	0.05	253	0	0	0
imazalil	Fat	0.01	not set	253	0	0	0
isopyrazam	Fat	0.01	0.005	253	0	0	0
mandestrobin	Fat	0.01	0.02	253	0	0	0
procymidone	Fat	0.02	0.2	253	0	0	0
propamocarb	Fat	0.01	0.01	253	0	0	0
propiconazole	Fat	0.02	0.1	253	0	0	0
prothioconazole	Fat	0.01	0.02	253	0	0	0
pydiflumetofen	Fat	0.01	0.02	253	0	0	0
pyraclostrobin	Fat	0.01	0.05	253	0	0	0
pyrimethanil	Fat	0.01	0.05	253	0	0	0
pyriofenone	Fat	0.01	0.01	253	0	0	0
quinoxyfen	Fat	0.01	0.1	253	0	0	0
quintozene	Fat	0.02	0.2	253	0	0	0
spiroxamine	Fat	0.01	0.05	253	0	0	0
tebuconazole	Fat	0.01	0.1	253	0	0	0

trifloxystrobin	Fat	0.01	0.05	253	0	0	0

Table 7: HERBICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amicarbazone	Fat	0.01	0.01	253	0	0	0
cloquintocet-mexyl	Fat	0.01	0.1	253	0	0	0
ethofumesate	Fat	0.02	0.5	253	0	0	0
florpyrauxifen-benzyl	Fat	0.01	0.02	253	0	0	0
indaziflam	Fat	0.01	not set	253	0	0	0
metamitron	Fat	0.01	0.05	253	0	0	0
metazachlor	Fat	0.01	0.05	253	0	0	0
metolachlor	Fat	0.02	0.05	253	0	0	0
propachlor	Fat	0.02	0.02	253	0	0	0
pyrasulfotole	Fat	0.01	0.01	253	0	0	0
pyroxsulam	Fat	0.01	0.01	253	0	0	0
saflufenacil	Fat	0.01	0.01	253	0	0	0
topramezone	Fat	0.01	0.01	253	0	0	0

Table 8: HORMONES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
dienoestrol	Liver	0.0002	not set	251	0	0	0
diethylstilboestrol	Liver	0.0002	not set	251	0	0	0
hexoestrol	Liver	0.0002	not set	251	0	0	0
trenbolone	Liver	0.0005	not set	251	0	0	0
zeranol (alpha-zearalanol)	Liver	0.002	not set	251	0	0	0

Table 9: INSECTICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
acetamiprid	Fat	0.01	0.01	253	0	0	0
afidopyropen	Fat	0.012	0.1	253	0	0	0
bifenthrin	Fat	0.02	2	253	0	0	0
bioresmethrin	Fat	0.02	not set	253	0	0	0
carbaryl	Fat	0.01	0.07	253	0	0	0
chlorantraniliprole	Fat	0.01	0.02	253	0	0	0
chlorfenapyr	Fat	0.02	0.05	253	0	0	0
chlorfenvinphos	Fat	0.02	not set	253	0	0	0

chlorfluazuron	Fat	0.01	not set	253	0	0	0
chlorpyrifos	Fat	0.01	0.5	253	1	0	0
chlorpyrifos-methyl	Fat	0.01	0.05	253	0	0	0
clothianidin	Fat	0.01	0.02	253	0	0	0
coumaphos	Fat	0.02	not set	253	0	0	0
cyantraniliprole	Fat	0.01	0.01	253	0	0	0
cyclaniliprole	Fat	0.01	0.01	253	0	0	0
cyfluthrin	Fat	0.02	0.5	253	0	0	0
cyhalothrin	Fat	0.02	0.5	253	0	0	0
cypermethrin	Fat	0.02	0.05	253	0	0	0
cyromazine	Kidney	0.01	0.05	251	0	0	0
deltamethrin	Fat	0.02	0.1	253	1	1	0
diafenthiuron	Fat	0.01	0.02	253	0	0	0
diazinon	Fat	0.02	0.7	253	1	0	0
dichlorvos	Fat	0.02	0.01	253	0	0	0
dicofol	Fat	0.01	not set	253	0	0	0
dicyclanil	Kidney	0.01	not set	251	0	0	0
diflubenzuron	Fat	0.01	not set	253	0	0	0
dimethoate	Fat	0.02	0.05	253	0	0	0
dinotefuran	Fat	0.03	0.02	253	0	0	0
ethion	Fat	0.02	not set	253	0	0	0
famphur	Fat	0.02	not set	253	0	0	0
famphur oxygen-analogue	Fat	0.02	not set	253	0	0	0
fenitrothion	Fat	0.02	0.05	253	0	0	0
fenthion	Fat	0.02	not set	253	0	0	0
fenvalerate	Fat	0.02	1	253	0	0	0
fipronil	Fat	0.01	0.1	253	0	0	0
flonicamid	Fat	0.01	0.02	253	0	0	0
fluazuron	Fat	0.01	not set	253	0	0	0
flubendiamide	Fat	0.01	0.05	253	0	0	0
fluensulfone	Fat	0.01	0.01	253	0	0	0
flumethrin	Fat	0.02	not set	253	0	0	0
flupyradifurone	Fat	0.01	not set	253	0	0	0
imidacloprid	Fat	0.01	0.05	253	0	0	0
indoxacarb	Fat	0.02	3	253	0	0	0
malathion	Fat	0.01	1	253	0	0	0
melamine	Kidney	0.01	2.5	251	1	0	0
metaflumizone	Fat	0.01	not set	253	0	0	0
methidathion	Fat	0.02	not set	253	0	0	0
methoxychlor	Fat	0.02	not set	253	0	0	0
mevinphos	Fat	0.01	0.05	253	0	0	0
novaluron	Fat	0.01	0.1	253	0	0	0

omethoate	Fat	0.02	0.05	253	0	0	0
parathion-methyl	Fat	0.02	not set	253	0	0	0
permethrin	Fat	0.02	1	253	0	0	0
phosmet	Fat	0.02	0.1	253	0	0	0
pirimiphos-methyl	Fat	0.02	0.05	253	0	0	0
prothiofos	Fat	0.01	not set	253	0	0	0
pyraclofos	Fat	0.02	not set	253	0	0	0
spinetoram	Fat	0.005	2	253	0	0	0
spinosad	Fat	0.005	2	253	90	0	0
spirotetramat	Fat	0.01	0.02	253	0	0	0
sulfoxaflor	Fat	0.01	0.2	253	0	0	0
tau-fluvalinate	Fat	0.01	not set	253	0	0	0
temephos	Fat	0.02	not set	253	0	0	0
triflumuron	Fat	0.01	0.05	253	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	251	2	0	0
arsenic (total)	Liver	0.05	no limit	251	0	0	0
cadmium	Liver	0.01	1.25	251	169	0	0
lead	Liver	0.01	0.5	251	32	0	0
mercury (total)	Liver	0.01	no limit	251	28	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	251	0	0	0
zearalanone	Liver	0.002	no limit	251	0	0	0
zearalenol alpha	Liver	0.002	no limit	251	3	0	0
zearalenol beta	Liver	0.002	no limit	251	1	0	0
zearalenone	Liver	0.002	no limit	251	1	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	251	0	0	0
clenbuterol	Liver	0.0003	not set	251	0	0	0
flunixin	Kidney	0.01	not set	251	0	0	0

ketoprofen	Kidney	0.01	not set	251	0	0	0
mabuterol	Liver	0.0003	not set	251	0	0	0
meloxicam	Kidney	0.005	0.01	251	0	0	0
oxyphenbutazone	Kidney	0.005	not set	251	0	0	0
phenylbutazone	Kidney	0.005	not set	251	0	0	0
ractopamine	Liver	0.0003	0.2	251	29	0	0
salbutamol	Liver	0.001	not set	251	0	0	0
tolfenamic acid	Kidney	0.005	0.01	251	0	0	0
zilpaterol	Liver	0.0003	not set	251	0	0	0