



Lentil 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 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 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
azoxystrobin	whole	0.01	0.3	100	0	0
benalaxyl	whole	0.01	not set	100	–	0
bitertanol	whole	0.01	not set	100	–	0
bixafen-P	whole	0.01	0.01	54	0	0
boscalid	whole	0.01	3	100	0	0
bupirimate	whole	0.01	not set	100	–	0
captafol	whole	0.02	not set	100	–	0
captan	whole	0.01	0.1	100	0	0
carbendazim	whole	0.01	0.5	100	0	0
carboxin	whole	0.01	not set	54	–	0
chlorothalonil	whole	0.01	3	100	0	0
cyproconazole	whole	0.01	0.03	100	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyprodinil	whole	0.01	not set	100	–	0
difenoconazole	whole	0.01	not set	100	–	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	100	–	0
dithianon	whole	0.01	not set	100	–	0
dodine	whole	0.01	not set	100	–	0
epoxiconazole	whole	0.01	not set	100	–	0
etridiazole	whole	0.01	0.2	100	0	0
fenarimol	whole	0.01	not set	100	–	0
fenbuconazole	whole	0.01	not set	54	–	0
fenhexamid	whole	0.01	not set	100	–	0
fluazinam	whole	0.01	not set	100	–	0
fludioxonil	whole	0.01	not set	100	–	0
fluquinconazole	whole	0.01	not set	100	–	0
flusilazole	whole	0.01	not set	100	–	0
flutriafol	whole	0.01	0.05	100	0	0
fluxapyroxad	whole	0.01	0.01	100	0	0
hexaconazole	whole	0.01	not set	100	–	0
imazalil	whole	0.01	not set	100	–	0
ipconazole	whole	0.01	not set	100	–	0
iprodione	whole	0.01	not set	100	–	0
isoprothiolane	whole	0.01	not set	54	–	0
kresoxim-methyl	whole	0.01	not set	100	–	0
metalaxyl	whole	0.01	not set	100	–	0
myclobutanil	whole	0.01	not set	100	–	0
oxadixyl	whole	0.01	not set	100	–	0
penconazole	whole	0.01	not set	100	–	0
penflufen	whole	0.01	0.01	54	0	0
prochloraz	whole	0.01	not set	100	–	0
procymidone	whole	0.01	0.5	100	0	0
propiconazole	whole	0.01	0.3	100	0	0
prothioconazole	whole	0.01	0.7	100	0	0
pyraclostrobin	whole	0.01	0.5	100	0	0
pyrimethanil	whole	0.01	not set	100	–	0
quinoxifen	whole	0.01	not set	100	–	0
sedaxane	whole	0.01	not set	54	–	0
spiroxamine-P	whole	0.01	not set	100	–	0
tebuconazole	whole	0.01	1	100	0	0
thiabendazole-P	whole	0.01	not set	100	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tolclofos methyl	whole	0.01	not set	100	–	0
triadimefon	whole	0.01	not set	100	–	0
triadimenol	whole	0.01	not set	100	–	0
trifloxystrobin	whole	0.01	0.01	100	0	0
triticonazole	whole	0.01	not set	100	–	0
vinclozolin	whole	0.01	not set	100	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.01	not set	100	–	0
2,4-D	whole	0.01	0.05	100	0	0
2,4-DB	whole	0.01	not set	54	–	0
aminopyralid	whole	0.01	not set	54	–	0
amitrole	whole	0.01	0.01	16	0	0
atrazine	whole	0.01	not set	100	–	0
bentazone	whole	0.01	0.01	54	0	0
bromacil	whole	0.01	not set	100	–	0
bromoxynil	whole	0.01	not set	100	–	0
butoxydim	whole	0.01	0.01	54	0	0
carfentrazone-ethyl	whole	0.01	not set	100	–	0
chlorpropham	whole	0.01	not set	100	–	0
chlorsulfuron	whole	0.01	not set	100	–	0
chlorthal-dimethyl	whole	0.01	not set	100	–	0
clethodim (parent only)	whole	0.01	0.1	100	0	0
clodinafop-propargyl	whole	0.01	not set	100	–	0
clopyralid	whole	0.01	not set	100	–	0
cyanazine	whole	0.01	0.01	100	0	0
dicamba	whole	0.01	not set	100	–	0
dichlobenil	whole	0.01	not set	100	–	0
dichlorprop-P	whole	0.02	not set	71	–	0
diclofop-methyl	whole	0.01	not set	16	–	0
diflufenican	whole	0.01	0.05	100	0	0
diquat	whole	0.01	1	16	0	0
diuron	whole	0.01	0.05	100	0	0
ethofumesate	whole	0.01	not set	100	–	0
fenoxaprop-ethyl	whole	0.01	not set	16	–	0
flamprop-M-methyl	whole	0.01	not set	16	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fluazifop-p-butyl	whole	0.01	0.5	16	0	0
flumetsulam	whole	0.01	0.05	100	0	0
flumioxazin	whole	0.01	0.1	54	0	0
fluroxypyr	whole	0.01	not set	54	–	0
glufosinate	whole	0.01	not set	16	–	0
glyphosate	whole	0.01	5	16	0	0
haloxyfop	whole	0.01	0.1	16	0	0
imazamox	whole	0.01	not set	100	–	0
imazapic	whole	0.01	not set	100	–	0
imazapyr	whole	0.01	not set	100	–	0
imazaquin	whole	0.01	not set	100	–	0
imazethapyr	whole	0.01	0.1	100	0	0
iodosulfuron-methyl	whole	0.01	not set	100	–	0
ioxynil	whole	0.01	not set	100	–	0
isoxaben	whole	0.01	not set	100	–	0
linuron	whole	0.01	not set	100	–	0
MCPA	whole	0.01	not set	100	–	0
methabenzthiazuron	whole	0.01	not set	100	–	0
metolachlor	whole	0.01	0.01	100	0	0
metosulam	whole	0.01	not set	100	–	0
metribuzin	whole	0.01	0.01	100	0	0
metsulfuron-methyl	whole	0.01	not set	100	–	0
napropamide	whole	0.01	not set	100	–	0
norflurazon	whole	0.01	not set	100	–	0
oryzalin	whole	0.01	not set	100	–	0
oxyfluorfen	whole	0.01	not set	100	–	0
paraquat	whole	0.01	1	16	0	0
pendimethalin	whole	0.01	0.05	100	0	0
picloram	whole	0.01	not set	100	–	0
propachlor	whole	0.01	not set	100	–	0
propaquizafop	whole	0.02	0.05	6	0	0
propyzamide	whole	0.01	0.01	100	0	0
quizalofop-ethyl	whole	0.01	0.2	16	0	0
quizalofop-P-tefuryl	whole	0.01	0.2	16	0	0
saflufenacil	whole	0.01	0.2	100	0	0
sethoxydim	whole	0.01	0.1	100	0	0
simazine	whole	0.01	not set	100	–	0
terbutryn	whole	0.01	not set	54	–	0
tralkoxydim	whole	0.01	not set	100	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triallate	whole	0.01	0.1	54	0	0
triasulfuron	whole	0.01	not set	100	–	0
triclopyr	whole	0.01	not set	100	–	0
trifluralin	whole	0.01	0.05	100	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
abamectin	whole	0.01	not set	100	–	0
acephate	whole	0.01	not set	100	–	0
acetamiprid-P	whole	0.01	not set	100	–	0
aldicarb	whole	0.01	not set	100	–	0
amitraz	whole	0.01	not set	100	–	0
azamethiphos	whole	0.01	not set	100	–	0
azinphos-methyl	whole	0.01	not set	100	–	0
bifenazate	whole	0.01	not set	100	–	0
bifenthrin	whole	0.01	0.02	100	0	0
bioresmethrin	whole	0.01	not set	100	–	0
buprofezin	whole	0.01	not set	100	–	0
cadusafos	whole	0.01	not set	100	–	0
carbaryl	whole	0.01	0.1	100	1	0
carbofuran	whole	0.01	not set	100	–	0
chlorantraniliprole	whole	0.01	0.07	100	0	0
chlorfenapyr	whole	0.01	not set	100	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	100	–	0
chlorpyrifos	whole	0.01	not set	100	–	0
chlorpyrifos-methyl	whole	0.01	0.15	100	0	0
clofentezine	whole	0.01	not set	100	–	0
clothianidin	whole	0.01	not set	100	–	0
cyfluthrin (sum of isomers)	whole	0.01	0.5	100	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.2	100	0	0
cypermethrin (sum of isomers)	whole	0.01	0.05	100	0	0
deltamethrin	whole	0.01	0.1	100	0	0
diafenthiuron	whole	0.01	not set	100	–	0
diazinon	whole	0.01	0.7	100	0	0
dichlorvos	whole	0.01	0.01	100	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dicofol	whole	0.01	not set	100	–	0
diflubenzuron	whole	0.01	not set	100	–	0
dimethoate	whole	0.01	0.5	100	0	0
disulfoton	whole	0.01	not set	100	–	0
emamectin	whole	0.01	0.01	100	0	0
esfenvalerate	whole	0.01	0.5	100	0	0
ethion	whole	0.01	not set	100	–	0
ethoprophos	whole	0.005	not set	100	–	0
etoxazole	whole	0.01	not set	100	–	0
fenamiphos	whole	0.01	not set	100	–	0
fenbutatin oxide	whole	0.01	not set	100	–	0
fenitrothion	whole	0.01	0.1	100	0	0
fenoxycarb	whole	0.01	not set	100	–	0
fenpyroximate	whole	0.01	not set	100	–	0
fenthion	whole	0.01	not set	100	–	0
Fenvalerate (sum of isomers)	whole	0.01	0.5	100	0	0
fipronil	whole	0.002	not set	100	–	0
hexythiazox	whole	0.01	not set	100	–	0
imidacloprid	whole	0.01	0.2	100	0	0
indoxacarb	whole	0.01	0.2	100	0	0
malathion (maldison)	whole	0.01	8	100	0	0
methacrifos	whole	0.01	not set	100	–	0
methamidophos	whole	0.01	not set	100	–	0
methidathion	whole	0.01	not set	100	–	0
methiocarb	whole	0.01	not set	100	–	0
methomyl	whole	0.01	1	100	0	0
methoprene	whole	0.01	not set	100	–	0
methoxychlor	whole	0.01	not set	100	–	0
methoxyfenozide	whole	0.01	not set	100	–	0
mevinphos	whole	0.01	not set	100	–	0
monocrotophos	whole	0.01	not set	100	–	0
omethoate	whole	0.01	2	100	0	0
parathion	whole	0.01	not set	100	–	0
parathion-methyl	whole	0.01	not set	100	–	0
permethrin (sum of isomers)	whole	0.01	not set	100	–	0
phenothrin (sum of isomers)	whole	0.01	not set	100	–	0
phorate	whole	0.01	not set	100	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
phosmet	whole	0.01	not set	100	–	0
piperonyl butoxide	whole	0.01	not set	100	–	0
pirimicarb	whole	0.01	0.02	100	0	0
pirimiphos-methyl	whole	0.01	not set	100	–	0
profenofos	whole	0.01	not set	100	–	0
propargite	whole	0.01	not set	100	–	0
prothiofos	whole	0.01	not set	100	–	0
pymetrozine	whole	0.01	not set	100	–	0
pyrethrins	whole	0.01	1	100	0	0
pyriproxyfen	whole	0.01	not set	100	–	0
spinetoram	whole	0.01	0.01	100	0	0
spinosad	whole	0.01	0.01	100	0	0
spirotetramat	whole	0.01	not set	100	–	0
sulfoxaflor	whole	0.01	not set	100	–	0
tau-fluvalinate	whole	0.01	not set	100	–	0
tebufenozide	whole	0.01	not set	100	–	0
tebufenpyrad	whole	0.01	not set	100	–	0
terbufos	whole	0.01	not set	100	–	0
tetradifon	whole	0.01	not set	100	–	0
thiacloprid	whole	0.01	not set	100	–	0
thiamethoxam	whole	0.01	not set	100	–	0
thiodicarb	whole	0.01	0.1	100	0	0
triazofos	whole	0.01	not set	100	–	0
trichlorfon	whole	0.01	0.2	100	0	0
triflumuron	whole	0.01	not set	100	–	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	whole	0.01	not set	100	–	0
chlordane	whole	0.01	0.02	100	0	0
DDT	whole	0.01	1	100	0	0
endosulfan	whole	0.01	not set	100	–	0
endrin	whole	0.01	not set	100	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	100	–	0
HCH (BHC)	whole	0.01	not set	100	–	0
heptachlor	whole	0.01	0.05	100	0	0
lindane (gamma-HCH)	whole	0.01	2	100	0	0

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mirex	whole	0.01	not set	100	–	0