



Lentil residue testing annual datasets 2019–20

National Residue Survey, 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 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	114	0	0
benalaxyl	whole	0.01	not set	114	–	0
bitertanol	whole	0.01	not set	114	–	0
bixafen	whole	0.01	0.01	114	0	0
boscalid	whole	0.01	3	114	0	0
bupirimate	whole	0.01	not set	114	–	0
captafol	whole	0.02	not set	114	–	0
captan	whole	0.01	0.1	114	0	0
carbendazim	whole	0.01	0.5	114	0	0
carboxin	whole	0.01	not set	114	–	0
chlorothalonil	whole	0.01	3	114	0	0

Lentil residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	0.03	114	0	0
cyprodinil	whole	0.01	not set	114	–	0
difenoconazole	whole	0.01	not set	114	–	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	114	–	0
dithianon	whole	0.01	not set	114	–	0
dodine	whole	0.01	not set	114	–	0
epoxiconazole	whole	0.01	not set	114	–	0
etridiazole	whole	0.01	0.2	114	0	0
fenarimol	whole	0.01	not set	114	–	0
fenbuconazole	whole	0.01	not set	114	–	0
fenhexamid	whole	0.01	not set	114	–	0
fluazinam	whole	0.01	not set	114	–	0
fludioxonil	whole	0.01	0.1	114	0	0
fluquinconazole	whole	0.01	not set	114	–	0
flusilazole	whole	0.01	not set	114	–	0
flutriafol	whole	0.01	0.05	114	0	2
fluxapyroxad	whole	0.01	0.01	114	0	0
hexaconazole	whole	0.01	not set	114	–	0
imazalil	whole	0.01	not set	114	–	0
ipconazole	whole	0.01	not set	114	–	0
iprodione	whole	0.01	not set	114	–	0
isoprothiolane	whole	0.01	not set	114	–	0
kresoxim-methyl	whole	0.01	not set	114	–	0
metalaxyl	whole	0.01	not set	114	–	0
myclobutanil	whole	0.01	not set	114	–	0
oxadixyl	whole	0.01	not set	114	–	0
penconazole	whole	0.01	not set	114	–	0
penflufen	whole	0.01	0.01	114	0	0
prochloraz	whole	0.01	not set	114	0	0
procymidone	whole	0.01	0.5	114	1	0
propiconazole	whole	0.01	0.3	114	0	0
prothioconazole	whole	0.01	0.7	114	0	0
pyraclostrobin	whole	0.01	0.5	114	0	0
pyrimethanil	whole	0.01	not set	114	–	0
quinoxifen	whole	0.01	not set	114	–	0
sedaxane	whole	0.01	not set	114	–	0
spiroxamine	whole	0.01	not set	114	–	0
tebuconazole	whole	0.01	1	114	0	0
thiabendazole	whole	0.01	not set	114	–	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	114	–	0
triadimefon	whole	0.01	not set	114	–	0
triadimenol	whole	0.01	not set	114	–	0
trifloxystrobin	whole	0.01	0.01	114	0	0
triticonazole	whole	0.01	not set	114	–	0
vinclozolin	whole	0.01	not set	114	–	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	114	–	0
2,4-D	whole	0.01	0.05	114	0	0
2,4-DB	whole	0.01	not set	114	–	0
aminopyralid	whole	0.01	not set	114	–	0
amitrole	whole	0.01	0.01	27	0	0
atrazine	whole	0.01	not set	114	–	0
bentazone	whole	0.01	0.01	114	0	0
bromacil	whole	0.01	not set	114	–	0
bromoxynil	whole	0.01	not set	114	–	0
butoxydim	whole	0.01	0.01	114	0	0
carfentrazone-ethyl	whole	0.01	not set	114	–	0
chlormequat	whole	0.01	not set	27	–	0
chlorpropham	whole	0.01	not set	114	–	0
chlorsulfuron	whole	0.01	not set	114	–	0
chlorthal-dimethyl	whole	0.01	not set	114	–	0
clethodim (parent only)	whole	0.01	0.1	114	0	0
clodinafop-propargyl	whole	0.01	not set	114	–	0
clopyralid	whole	0.01	not set	114	–	0
cyanazine	whole	0.01	0.01	114	0	0
dicamba	whole	0.01	not set	114	–	0
dichlobenil	whole	0.01	not set	114	–	0
dichlorprop-P	whole	0.01	not set	27	–	0
diclofop-methyl	whole	0.01	not set	27	–	0
diflufenican	whole	0.01	0.05	114	0	0
diquat	whole	0.01	1	27	0	0
diuron	whole	0.01	0.05	114	0	0
ethofumesate	whole	0.01	not set	114	–	0
fenoxaprop-ethyl	whole	0.01	not set	114	–	0
flamprop-M-methyl	whole	0.01	not set	27	–	0

Lentil residue testing annual datasets 2019–20

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	27	0	0
flumetsulam	whole	0.01	0.05	114	0	0
flumioxazin	whole	0.01	0.1	114	0	0
fluroxypyr	whole	0.01	not set	114	–	0
glufosinate	whole	0.01	not set	27	–	0
glyphosate	whole	0.01	5	27	0	0
haloxyfop	whole	0.01	0.1	27	0	0
imazamox	whole	0.01	0.01	111	0	0
imazapic	whole	0.01	not set	111	–	0
imazapyr	whole	0.01	0.01	111	0	0
imazaquin	whole	0.01	not set	111	0	0
imazethapyr	whole	0.01	0.1	111	0	0
iodosulfuron-methyl	whole	0.01	not set	114	–	0
ioxynil	whole	0.01	not set	114	–	0
isoxaben	whole	0.01	not set	114	–	0
linuron	whole	0.01	not set	114	–	0
MCPA	whole	0.01	not set	114	–	0
methabenzthiazuron	whole	0.01	not set	114	–	0
metolachlor	whole	0.01	0.01	114	0	0
metosulam	whole	0.01	not set	114	–	0
metribuzin	whole	0.01	0.01	114	0	0
metsulfuron-methyl	whole	0.01	not set	114	–	0
napropamide	whole	0.01	not set	114	–	0
norflurazon	whole	0.01	not set	114	–	0
oryzalin	whole	0.01	not set	114	–	0
oxyfluorfen	whole	0.01	not set	114	–	0
paraquat	whole	0.01	1	27	0	0
pendimethalin	whole	0.01	0.05	114	0	0
picloram	whole	0.01	not set	114	–	0
propachlor	whole	0.01	not set	114	–	0
propaquizafop	whole	0.01	0.05	27	0	0
propyzamide	whole	0.01	0.01	114	0	0
quizalofop-ethyl	whole	0.01	0.2	27	0	0
quizalofop-P-tefuryl	whole	0.01	0.2	27	0	0
saflufenacil	whole	0.01	0.2	114	0	0
sethoxydim	whole	0.01	0.1	114	0	0
simazine	whole	0.01	not set	114	–	0
terbutryn	whole	0.01	not set	114	–	0
tralkoxydim	whole	0.01	not set	114	–	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	114	0	0
triasulfuron	whole	0.01	not set	114	–	0
triclopyr	whole	0.01	not set	114	–	0
trifluralin	whole	0.01	0.05	114	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	114	–	0
acephate	whole	0.01	not set	114	–	0
acetamiprid	whole	0.01	not set	114	–	0
aldicarb	whole	0.01	not set	114	–	0
amitraz	whole	0.01	not set	114	–	0
azamethiphos	whole	0.01	not set	114	–	0
azinphos-methyl	whole	0.01	not set	114	–	0
bifenazate	whole	0.01	not set	114	–	0
bifenthrin	whole	0.01	0.02	114	0	0
bioresmethrin	whole	0.01	not set	114	–	0
buprofezin	whole	0.01	not set	114	–	0
cadusafos	whole	0.01	not set	114	–	0
carbaryl	whole	0.01	0.1	114	0	0
carbofuran	whole	0.01	not set	114	–	0
chlorantraniliprole	whole	0.01	0.07	114	0	0
chlorfenapyr	whole	0.01	not set	114	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	114	–	0
chlorpyrifos	whole	0.01	not set	114	–	0
chlorpyrifos-methyl	whole	0.01	0.15	114	0	0
clofentezine	whole	0.01	not set	114	–	0
clothianidin	whole	0.01	0.1	114	0	0
cyfluthrin (sum of isomers)	whole	0.01	0.5	114	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.2	114	0	0
cypermethrin (sum of isomers)	whole	0.01	0.05	114	0	0
deltamethrin	whole	0.01	0.1	114	0	0
diafenthiuron	whole	0.01	not set	114	–	0
diazinon	whole	0.01	0.7	114	0	0
dichlorvos	whole	0.01	0.01	114	0	0
dicofol	whole	0.01	not set	114	–	0

Lentil residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diflubenzuron	whole	0.01	not set	114	–	0
dimethoate	whole	0.01	0.5	114	0	0
disulfoton	whole	0.01	not set	114	–	0
emamectin	whole	0.01	0.01	114	0	0
esfenvalerate	whole	0.01	0.5	114	0	0
ethion	whole	0.01	not set	114	–	0
ethoprophos	whole	0.005	not set	114	–	0
etoxazole	whole	0.01	not set	114	–	0
fenamiphos	whole	0.01	not set	114	–	0
fenbutatin oxide	whole	0.01	not set	114	–	0
fenitrothion	whole	0.01	0.1	114	0	0
fenoxycarb	whole	0.01	not set	114	–	0
fenpyroximate	whole	0.01	not set	114	–	0
fenthion	whole	0.01	not set	114	–	0
fenvalerate (sum of isomers)	whole	0.01	0.5	114	0	0
fipronil	whole	0.002	not set	114	–	0
hexythiazox	whole	0.01	not set	114	–	0
imidacloprid	whole	0.01	0.2	114	0	0
indoxacarb	whole	0.01	0.2	114	0	0
malathion (maldison)	whole	0.01	8	114	0	0
methacrifos	whole	0.01	not set	114	–	0
methamidophos	whole	0.01	not set	114	–	0
methidathion	whole	0.01	not set	114	–	0
methiocarb	whole	0.01	not set	114	–	0
methomyl	whole	0.01	1	114	0	0
methoprene	whole	0.01	not set	114	–	0
methoxychlor	whole	0.01	not set	114	–	0
methoxyfenozide	whole	0.01	not set	114	–	0
mevinphos	whole	0.01	not set	114	–	0
monocrotophos	whole	0.01	not set	114	–	0
omethoate	whole	0.01	2	114	0	0
parathion	whole	0.01	not set	114	–	0
parathion-methyl	whole	0.01	not set	114	–	0
permethrin (sum of isomers)	whole	0.01	not set	114	–	0
phenothrin (sum of isomers)	whole	0.01	not set	114	–	0
phorate	whole	0.01	not set	114	–	0
phosmet	whole	0.01	not set	114	–	0
piperonyl butoxide	whole	0.01	8	114	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
pirimicarb	whole	0.01	0.02	114	0	0
pirimiphos-methyl	whole	0.01	not set	114	–	0
profenofos	whole	0.01	not set	114	–	0
propargite	whole	0.01	not set	114	–	0
prothiofos	whole	0.01	not set	114	–	0
pymetrozine	whole	0.01	not set	114	–	0
pyrethrins	whole	0.01	1	114	0	0
pyriproxyfen	whole	0.01	not set	114	–	0
spinetoram	whole	0.01	0.01	114	0	0
spinosad	whole	0.01	0.01	114	0	0
spirotetramat	whole	0.01	not set	114	–	0
sulfoxaflor	whole	0.01	not set	114	–	0
tau-fluvalinate	whole	0.01	not set	114	–	0
tebufenozide	whole	0.01	not set	114	–	0
tebufenpyrad	whole	0.01	not set	114	–	0
terbufos	whole	0.01	not set	114	–	0
tetradifon	whole	0.01	not set	114	–	0
thiacloprid	whole	0.01	not set	114	–	0
thiamethoxam	whole	0.01	0.5	114	0	0
thiodicarb	whole	0.01	0.1	114	0	0
triazofos	whole	0.01	not set	114	–	0
trichlorfon	whole	0.01	0.2	114	0	0
triflumuron	whole	0.01	not set	114	–	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	114	–	0
chlordane	whole	0.01	0.02	114	0	0
DDT	whole	0.01	1	114	0	0
endosulfan	whole	0.01	not set	114	–	0
endrin	whole	0.01	not set	114	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	114	–	0
HCH (BHC)	whole	0.01	not set	114	–	0
heptachlor	whole	0.01	0.05	114	0	0
lindane (gamma-HCH)	whole	0.01	2	114	0	0
mirex	whole	0.01	not set	114	–	0