



Chickpea 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	78	0	0
benalaxyl	whole	0.01	not set	78	–	0
bitertanol	whole	0.01	not set	78	–	0
bixafen-P	whole	0.01	0.01	52	0	0
boscalid	whole	0.01	3	78	0	0
bupirimate	whole	0.01	not set	78	–	0
captafol	whole	0.02	not set	78	–	0
captan	whole	0.01	0.1	78	0	0
carbendazim	whole	0.01	0.5	78	0	0
carboxin	whole	0.01	not set	52	–	0
chlorothalonil	whole	0.01	3	78	0	0
cyproconazole	whole	0.01	0.03	78	0	0
cyprodinil	whole	0.01	0.2	78	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
difenoconazole	whole	0.01	not set	78	–	0
dimethomorph (sum of E and Z isomers)	whole	0.01	1	78	0	0
dithianon	whole	0.01	not set	78	–	0
dodine	whole	0.01	not set	78	–	0
epoxiconazole	whole	0.01	not set	78	–	0
etridiazole	whole	0.01	0.2	78	0	0
fenarimol	whole	0.01	not set	78	–	0
fenbuconazole	whole	0.01	not set	52	–	0
fenhexamid	whole	0.01	not set	78	–	0
fluazinam	whole	0.01	not set	78	–	0
fludioxonil	whole	0.01	not set	78	–	0
fluquinconazole	whole	0.01	not set	78	–	0
flusilazole	whole	0.01	not set	78	–	0
flutriafol	whole	0.01	0.05	78	0	0
fluxapyroxad	whole	0.01	0.01	78	0	0
hexaconazole	whole	0.01	not set	78	–	0
imazalil	whole	0.01	not set	78	–	0
ipconazole	whole	0.01	not set	78	–	0
iprodione	whole	0.01	not set	78	–	0
isoprothiolane	whole	0.01	not set	52	–	0
kresoxim-methyl	whole	0.01	not set	78	–	0
metalaxyl	whole	0.01	not set	78	–	0
myclobutanil	whole	0.01	not set	78	–	0
oxadixyl	whole	0.01	not set	78	–	0
penconazole	whole	0.01	not set	78	–	0
penflufen	whole	0.01	0.01	52	0	0
prochloraz	whole	0.01	not set	78	–	0
procymidone	whole	0.01	0.5	78	0	0
propiconazole	whole	0.01	0.3	78	0	0
prothioconazole	whole	0.01	0.7	78	0	0
pyraclostrobin	whole	0.01	0.5	78	0	0
pyrimethanil	whole	0.01	not set	78	–	0
quinoxifen	whole	0.01	not set	78	–	0
sedaxane	whole	0.01	not set	52	–	0
spiroxamine-P	whole	0.01	not set	78	–	0
tebuconazole	whole	0.01	1	78	0	0
thiabendazole-P	whole	0.01	not set	78	–	0
tolclofos methyl	whole	0.01	not set	78	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triadimefon	whole	0.01	not set	78	–	0
triadimenol	whole	0.01	not set	78	–	0
trifloxystrobin	whole	0.01	0.01	78	0	0
triticonazole	whole	0.01	not set	78	–	0
vinclozolin	whole	0.01	not set	78	–	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	78	–	0
2,4-D	whole	0.01	0.05	78	0	0
2,4-DB	whole	0.01	not set	52	–	0
aminopyralid	whole	0.01	not set	52	–	0
amitrole	whole	0.01	0.01	26	0	0
atrazine	whole	0.01	not set	78	–	0
bentazone	whole	0.01	0.01	52	0	0
bromacil	whole	0.01	not set	78	–	0
bromoxynil	whole	0.01	not set	78	–	0
butoxydim	whole	0.01	0.01	52	0	0
carfentrazone-ethyl	whole	0.01	not set	78	–	0
chlorpropham	whole	0.01	not set	78	–	0
chlorsulfuron	whole	0.01	not set	78	–	0
chlorthal-dimethyl	whole	0.01	not set	78	–	0
clethodim (parent only)	whole	0.01	0.1	78	0	0
clodinafop-propargyl	whole	0.01	not set	78	–	0
clopyralid	whole	0.01	not set	78	–	0
cyanazine	whole	0.01	0.01	78	0	0
dicamba	whole	0.01	not set	78	–	0
dichlobenil	whole	0.01	not set	78	–	0
dichlorprop-P	whole	0.02	not set	52	–	0
diclofop-methyl	whole	0.01	not set	26	–	0
diflufenican	whole	0.01	0.05	78	0	0
diquat	whole	0.01	1	26	0	0
diuron	whole	0.01	0.05	78	0	0
ethofumesate	whole	0.01	not set	78	–	0
fenoxaprop-ethyl	whole	0.01	0.01	26	0	0
flamprop-M-methyl	whole	0.01	0.01	26	0	0
fluazifop-p-butyl	whole	0.01	0.5	26	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flumetsulam	whole	0.01	0.05	78	0	0
flumioxazin	whole	0.01	0.1	52	0	0
fluroxypyr	whole	0.01	not set	52	–	0
glufosinate	whole	0.01	not set	26	–	0
glyphosate	whole	0.01	5	26	0	0
haloxyfop	whole	0.01	0.1	26	2	0
imazamox	whole	0.01	not set	78	–	0
imazapic	whole	0.01	not set	78	–	0
imazapyr	whole	0.01	not set	78	–	0
imazaquin	whole	0.01	not set	78	–	0
imazethapyr	whole	0.01	0.1	78	0	0
iodosulfuron-methyl	whole	0.01	not set	78	–	0
ioxynil	whole	0.01	not set	78	–	0
isoxaben	whole	0.01	not set	78	–	0
linuron	whole	0.01	not set	78	–	0
MCPA	whole	0.01	not set	78	–	0
methabenzthiazuron	whole	0.01	not set	78	–	0
metolachlor	whole	0.01	0.01	78	0	0
metosulam	whole	0.01	not set	78	–	0
metribuzin	whole	0.01	0.01	78	0	0
metsulfuron-methyl	whole	0.01	0.05	78	0	0
napropamide	whole	0.01	not set	78	–	0
norflurazon	whole	0.01	not set	78	–	0
oryzalin	whole	0.01	not set	78	–	0
oxyfluorfen	whole	0.01	not set	78	–	0
paraquat	whole	0.01	1	26	0	0
pendimethalin	whole	0.01	0.05	78	0	0
picloram	whole	0.01	not set	78	–	0
propachlor	whole	0.01	not set	78	–	0
propaquizafop	whole	0.02	0.05	13	0	0
propyzamide	whole	0.01	0.01	78	0	0
quizalofop-ethyl	whole	0.01	0.2	26	0	0
quizalofop-P-tefuryl	whole	0.01	0.2	26	0	0
saflufenacil	whole	0.01	0.2	78	0	0
sethoxydim	whole	0.01	0.1	78	0	0
simazine	whole	0.01	0.05	78	0	0
terbutryn	whole	0.01	not set	52	–	0
tralkoxydim	whole	0.01	not set	78	–	0
triallate	whole	0.01	0.1	52	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triasulfuron	whole	0.01	not set	78	–	0
triclopyr	whole	0.01	not set	78	–	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	78	–	0
acephate	whole	0.01	not set	78	–	0
acetamiprid-P	whole	0.01	not set	78	–	0
aldicarb	whole	0.01	not set	78	–	0
amitraz	whole	0.01	not set	78	–	0
azamethiphos	whole	0.01	not set	78	–	0
azinphos-methyl	whole	0.01	not set	78	–	0
bifenazate	whole	0.01	0.5	78	0	0
bifenthrin	whole	0.01	0.02	78	0	0
bioresmethrin	whole	0.01	not set	78	–	0
buprofezin	whole	0.01	not set	78	–	0
cadusafos	whole	0.01	not set	78	–	0
carbaryl	whole	0.01	0.1	78	0	0
carbofuran	whole	0.01	not set	78	–	0
chlorantraniliprole	whole	0.01	0.07	78	0	0
chlorfenapyr	whole	0.01	not set	78	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	78	–	0
chlorpyrifos	whole	0.01	not set	78	–	0
chlorpyrifos-methyl	whole	0.01	0.15	78	0	0
clofentezine	whole	0.01	not set	78	–	0
clothianidin	whole	0.01	not set	78	–	0
cyfluthrin (sum of isomers)	whole	0.01	0.5	78	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.2	78	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	78	0	0
deltamethrin	whole	0.01	0.1	78	0	0
diafenthiuron	whole	0.01	not set	78	–	0
diazinon	whole	0.01	0.7	78	0	0
dichlorvos	whole	0.01	0.01	78	0	0
dicofol	whole	0.01	not set	78	–	0
diflubenzuron	whole	0.01	not set	78	–	0
dimethoate	whole	0.01	0.5	78	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
disulfoton	whole	0.01	not set	78	–	0
emamectin	whole	0.01	0.01	78	0	0
esfenvalerate	whole	0.01	0.5	78	0	0
ethion	whole	0.01	not set	78	–	0
ethoprophos	whole	0.005	not set	78	–	0
etoxazole	whole	0.01	not set	78	–	0
fenamiphos	whole	0.01	not set	78	–	0
fenbutatin oxide	whole	0.01	not set	78	–	0
fenitrothion	whole	0.01	0.1	78	0	2
fenoxycarb	whole	0.01	not set	78	–	0
fenpyroximate	whole	0.01	not set	78	–	0
fenthion	whole	0.01	not set	78	–	0
fenvalerate (sum of isomers)	whole	0.01	0.5	78	0	0
fipronil	whole	0.002	not set	78	–	0
hexythiazox	whole	0.01	not set	78	–	0
imidacloprid	whole	0.01	not set	78	–	0
indoxacarb	whole	0.01	0.2	78	0	0
malathion (maldison)	whole	0.01	2	78	0	0
methacrifos	whole	0.01	not set	78	–	0
methamidophos	whole	0.01	not set	78	–	0
methidathion	whole	0.01	not set	78	–	0
methiocarb	whole	0.01	not set	78	–	0
methomyl	whole	0.01	1	78	0	0
methoprene	whole	0.01	not set	78	–	0
methoxychlor	whole	0.01	not set	78	–	0
methoxyfenozide	whole	0.01	not set	78	–	0
mevinphos	whole	0.01	not set	78	–	0
monocrotophos	whole	0.01	not set	78	–	0
omethoate	whole	0.01	2	78	0	0
parathion	whole	0.01	not set	78	–	0
parathion-methyl	whole	0.01	not set	78	–	0
permethrin (sum of isomers)	whole	0.01	not set	78	–	2
phenothrin (sum of isomers)	whole	0.01	not set	78	–	0
phorate	whole	0.01	not set	78	–	0
phosmet	whole	0.01	not set	78	–	0
piperonyl butoxide	whole	0.01	not set	78	–	9
pirimicarb	whole	0.01	0.02	78	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
pirimiphos-methyl	whole	0.01	not set	78	–	0
profenofos	whole	0.01	not set	78	–	0
propargite	whole	0.01	not set	78	–	0
prothiofos	whole	0.01	not set	78	–	0
pymetrozine	whole	0.01	not set	78	–	0
pyrethrins	whole	0.01	1	78	0	0
pyriproxyfen	whole	0.01	not set	78	–	0
spinetoram	whole	0.01	0.01	78	0	0
spinosad	whole	0.01	0.01	78	0	0
spirotetramat	whole	0.01	not set	78	–	0
sulfoxaflor	whole	0.01	not set	78	–	0
tau-fluvalinate	whole	0.01	not set	78	–	0
tebufenozide	whole	0.01	not set	78	–	0
tebufenpyrad	whole	0.01	not set	78	–	0
terbufos	whole	0.01	not set	78	–	0
tetradifon	whole	0.01	not set	78	–	0
thiacloprid	whole	0.01	not set	78	–	0
thiamethoxam	whole	0.01	not set	78	–	0
thiodicarb	whole	0.01	0.1	78	0	0
triazofos	whole	0.01	not set	78	–	0
trichlorfon	whole	0.01	0.2	78	0	0
triflumuron	whole	0.01	not set	78	–	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	78	–	0
chlordane	whole	0.01	0.02	78	0	0
DDT	whole	0.01	1	78	0	0
endosulfan	whole	0.01	not set	78	–	0
endrin	whole	0.01	not set	78	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	78	–	0
HCH (BHC)	whole	0.01	not set	78	–	0
heptachlor	whole	0.01	0.05	78	0	0
lindane (gamma-HCH)	whole	0.01	2	78	0	0
mirex	whole	0.01	not set	78	–	0