



Almond 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
2-phenylphenol	whole	0.05	not set	70	–	0
azoxystrobin	whole	0.01	0.01	70	0	0
benalaxyl	whole	0.01	not set	70	–	0
bitertanol	whole	0.01	not set	70	–	0
boscalid	whole	0.01	0.5	70	0	0
bupirimate	whole	0.01	not set	70	–	0
captafol	whole	0.05	not set	70	–	0
captan	whole	0.05	0.3	70	0	0
carbendazim	whole	0.01	not set	70	–	0
chlorothalonil	whole	0.01	0.1	70	0	0
cyproconazole	whole	0.01	not set	70	–	0
cyprodinil	whole	0.01	0.01	70	0	0
difenoconazole	whole	0.01	not set	70	–	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	70	–	0
dithianon	whole	0.01	not set	70	–	0
dithiocarbamates	whole	0.2	3	70	0	0
dodine	whole	0.01	not set	70	–	0
epoxiconazole	whole	0.01	not set	70	–	0
etridiazole	whole	0.01	not set	70	–	0
fenarimol	whole	0.01	not set	70	–	0
fenbuconazole	whole	0.01	not set	70	–	0
fenhexamid	whole	0.01	not set	70	–	0
fluazinam	whole	0.01	not set	70	–	0
fludioxonil	whole	0.01	not set	70	–	0
fluopyram	whole	0.01	0.05	70	0	0
fluquinconazole	whole	0.01	not set	70	–	0
flusilazole	whole	0.01	not set	70	–	0
flutriafol	whole	0.01	0.5	70	0	0
hexaconazole	whole	0.01	not set	70	–	0
imazalil	whole	0.01	not set	70	–	0
iprodione	whole	0.02	0.02	70	0	0
kresoxim-methyl	whole	0.01	not set	70	–	0
mandestrobin	whole	0.01	not set	70	–	0
metalaxyl	whole	0.01	not set	70	–	0
metrafenone	whole	0.01	not set	70	–	0
myclobutanil	whole	0.01	not set	70	–	0
oxadixyl	whole	0.01	not set	70	–	0
paclobutrazol	whole	0.01	not set	70	–	0
penconazole	whole	0.01	not set	70	–	0
penthiopyrad	whole	0.01	0.1	70	0	0
prochloraz	whole	0.01	not set	70	–	0
procymidone	whole	0.01	not set	70	–	0
propiconazole	whole	0.01	0.2	70	0	0
prothioconazole	whole	0.05	not set	70	–	0
pyraclostrobin	whole	0.01	0.01	70	0	0
pyrimethanil	whole	0.01	not set	70	–	0
tebuconazole	whole	0.01	0.01	70	0	0
thiabendazole-P	whole	0.01	not set	70	–	0
tolclofos methyl	whole	0.01	not set	70	–	0
triadimefon	whole	0.01	not set	70	–	0
triadimenol	whole	0.01	not set	70	–	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	0.05	not set	70	–	0
2,4-D	whole	0.01	0.05	70	0	0
amitrole	whole	0.01	not set	53	–	0
atrazine	whole	0.01	not set	70	–	0
bromacil	whole	0.01	not set	70	–	0
bromoxynil	whole	0.01	not set	70	–	0
carfentrazone-ethyl	whole	0.01	0.05	70	0	0
chlorpropham	whole	0.05	not set	70	–	0
chlorsulfuron	whole	0.01	not set	70	–	0
chlorthal-dimethyl	whole	0.01	not set	70	–	0
clethodim (parent only)	whole	0.01	not set	70	–	0
clodinafop-propargyl	whole	0.01	not set	70	–	0
clopyralid	whole	0.05	not set	70	–	0
cyanazine	whole	0.01	not set	70	–	0
dicamba	whole	0.01	not set	70	–	0
dichlobenil	whole	0.01	not set	70	–	0
dichlorprop-P	whole	0.01	not set	70	–	0
diclofop-methyl	whole	0.01	not set	53	–	0
diflufenican	whole	0.01	not set	70	–	0
diquat	whole	0.01	0.05	53	0	0
diuron	whole	0.01	not set	70	–	0
ethofumesate	whole	0.01	not set	70	–	0
fenoxaprop-ethyl	whole	0.01	not set	53	–	0
flamprop-M-methyl	whole	0.01	not set	53	–	0
fluazifop-p-butyl	whole	0.01	not set	53	–	0
flumioxazin	whole	0.02	0.02	70	0	0
glufosinate	whole	0.01	0.1	53	0	0
glyphosate	whole	0.01	0.2	53	0	0
haloxyfop	whole	0.01	0.05	53	0	1
iodosulfuron-methyl	whole	0.01	not set	70	–	0
ioxynil	whole	0.01	not set	70	–	0
isoxaben	whole	0.01	0.01	70	0	0
linuron	whole	0.05	not set	70	–	0
MCPA	whole	0.01	not set	70	–	0
methabenzthiazuron	whole	0.01	not set	70	–	0
metolachlor	whole	0.01	not set	70	–	0
metosulam	whole	0.01	not set	70	–	0
metribuzin	whole	0.01	not set	70	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
metsulfuron-methyl	whole	0.01	not set	70	–	0
napropamide	whole	0.01	0.1	70	0	0
norflurazon	whole	0.01	0.2	70	0	0
oryzalin	whole	0.01	0.1	70	0	0
oxyfluorfen	whole	0.01	0.05	70	0	0
paraquat	whole	0.01	0.05	53	0	0
pendimethalin	whole	0.01	0.05	70	0	0
picloram	whole	0.01	not set	70	–	0
propachlor	whole	0.01	not set	70	–	0
propyzamide	whole	0.01	not set	70	–	0
quizalofop-ethyl	whole	0.01	not set	70	–	0
quizalofop-P-tefuryl	whole	0.01	not set	70	–	0
saflufenacil	whole	0.01	0.03	70	0	0
sethoxydim	whole	0.01	not set	70	–	0
simazine	whole	0.01	0.1	70	0	0
tralkoxydim	whole	0.01	not set	70	–	0
triasulfuron	whole	0.01	not set	70	–	0
triclopyr	whole	0.01	not set	70	–	0
trifluralin	whole	0.01	not set	70	–	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	0.01	70	0	0
acephate	whole	0.05	not set	70	–	0
acetamiprid-P	whole	0.01	not set	70	–	0
aldicarb	whole	0.01	not set	70	–	0
amitraz	whole	0.01	not set	70	–	0
azamethiphos	whole	0.01	not set	70	–	0
azinphos-methyl	whole	0.01	not set	70	–	0
bifenazate	whole	0.01	0.1	70	0	0
bifenthrin	whole	0.01	not set	70	–	0
bioresmethrin	whole	0.01	not set	70	–	0
buprofezin	whole	0.01	not set	70	–	0
cadusafos	whole	0.005	not set	70	–	0
carbaryl	whole	0.01	not set	70	–	0
carbofuran	whole	0.005	not set	70	–	0
chlorantraniliprole	whole	0.01	0.1	70	0	0
chlorfenapyr	whole	0.01	not set	70	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorfenvinphos (sum of isomers)	whole	0.01	not set	70	–	0
chlorpyrifos	whole	0.01	0.05	70	0	0
chlorpyrifos-methyl	whole	0.01	not set	70	–	0
clofentezine	whole	0.01	0.5	70	0	0
clothianidin	whole	0.01	0.05	70	0	0
cyantraniliprole	whole	0.01	0.05	70	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	70	–	0
cyhalothrin (sum of isomers)	whole	0.01	not set	70	–	0
cypermethrin (sum of isomers)	whole	0.01	0.01	70	0	0
deltamethrin	whole	0.01	not set	70	–	0
diazinon	whole	0.01	0.1	70	0	0
dichlorvos	whole	0.01	2	70	0	0
dicofol	whole	0.01	5	70	0	0
diflubenzuron	whole	0.01	not set	70	–	0
dimethoate	whole	0.01	not set	70	–	0
disulfoton	whole	0.01	not set	70	–	0
emamectin	whole	0.005	not set	70	–	0
esfenvalerate	whole	0.01	not set	70	–	0
ethion	whole	0.01	not set	70	–	0
ethoprophos	whole	0.005	not set	70	–	0
etoxazole	whole	0.01	0.01	70	0	0
fenamiphos	whole	0.01	not set	70	–	0
fenbutatin oxide	whole	0.01	not set	70	–	0
fenitrothion	whole	0.01	not set	70	–	0
fenoxycarb	whole	0.01	not set	70	–	0
fenpyroximate	whole	0.01	not set	70	–	0
fenthion	whole	0.01	not set	70	–	0
fenvalerate (sum of isomers)	whole	0.01	not set	70	–	0
fipronil	whole	0.01	not set	70	–	0
flonicamid	whole	0.01	not set	70	–	0
hexythiazox	whole	0.01	not set	70	–	0
imidacloprid	whole	0.01	not set	70	–	0
indoxacarb	whole	0.01	not set	70	–	0
malathion (maldison)	whole	0.01	8	70	0	0
metaldehyde	whole	0.05	not set	70	–	0
methacrifos	whole	0.01	not set	70	–	0
methamidophos	whole	0.01	not set	70	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
methidathion	whole	0.01	not set	70	–	0
methiocarb	whole	0.01	not set	70	–	0
methomyl	whole	0.01	not set	70	–	0
methoprene	whole	0.01	not set	70	–	0
methoxychlor	whole	0.01	not set	70	–	0
methoxyfenozide	whole	0.01	0.2	70	0	0
mevinphos	whole	0.01	not set	70	–	0
monocrotophos	whole	0.01	not set	70	–	0
novaluron	whole	0.01	not set	70	–	0
omethoate	whole	0.01	not set	70	–	0
parathion	whole	0.01	not set	70	–	0
parathion-methyl	whole	0.01	not set	70	–	0
permethrin (sum of isomers)	whole	0.01	not set	70	–	0
phenothrin (sum of isomers)	whole	0.01	not set	70	–	0
phorate	whole	0.01	not set	70	–	0
phosmet	whole	0.01	not set	70	–	0
piperonyl butoxide	whole	0.01	8	70	0	0
pirimicarb	whole	0.01	0.05	70	0	0
pirimiphos-methyl	whole	0.01	not set	70	–	0
profenofos	whole	0.01	not set	70	–	0
propargite	whole	0.01	not set	70	–	0
prothiofos	whole	0.01	not set	70	–	0
pymetrozine	whole	0.01	0.01	70	0	0
pyrethrins	whole	0.05	1	70	0	0
pyridaben	whole	0.02	0.05	70	0	0
pyriproxyfen	whole	0.01	not set	70	–	0
spinetoram	whole	0.01	not set	70	–	0
spinosad	whole	0.01	0.01	70	0	0
spirotetramat	whole	0.01	not set	70	–	0
sulfoxaflor	whole	0.01	0.02	70	0	0
tau-fluvalinate	whole	0.01	not set	70	–	0
tebufenozide	whole	0.01	not set	70	–	0
tebufenpyrad	whole	0.01	not set	70	–	0
terbufos	whole	0.01	not set	70	–	0
tetradifon	whole	0.01	not set	70	–	0
thiacloprid	whole	0.01	not set	70	–	0
thiamethoxam	whole	0.01	not set	70	–	0
thiodicarb	whole	0.01	not set	70	–	0
triazofos	whole	0.01	not set	70	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
trichlorfon	whole	0.01	not set	70	–	0
triflumuron	whole	0.01	not set	70	–	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	70	–	0
chlordane	whole	0.01	not set	70	–	0
DDT	whole	0.01	not set	70	–	0
endosulfan	whole	0.01	not set	70	–	0
endrin	whole	0.01	not set	70	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	70	–	0
HCH (BHC)	whole	0.01	not set	70	–	0
heptachlor	whole	0.01	not set	70	–	0
lindane (gamma-HCH)	whole	0.01	not set	70	–	0
mirex	whole	0.01	not set	70	–	0

Table 5 Fumigants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
phosphine total	whole	0.005	0.01	19	0	0

Table 6 Physiological modifier

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diphenylamine	whole	0.01	not set	70	–	0