



Almond residue testing annual datasets 2020–21

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
2-phenylphenol	whole	0.05	not set	99	–	0
azoxystrobin	whole	0.01	0.01	99	0	0
benalaxyl	whole	0.01	not set	99	–	0
bitertanol	whole	0.01	not set	99	–	0
boscalid	whole	0.01	0.5	99	0	0
bupirimate	whole	0.01	not set	99	–	0
captafol	whole	0.05	not set	99	–	0
captan	whole	0.05	0.3	99	0	0
carbendazim	whole	0.01	not set	99	–	0
chlorothalonil	whole	0.01	0.1	99	0	0

Almond residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	not set	99	–	0
cyprodinil	whole	0.01	0.01	99	0	0
difenoconazole	whole	0.01	not set	99	–	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	99	–	0
dithianon	whole	0.01	not set	99	–	0
dithiocarbamates	whole	0.2	3	99	0	0
dodine	whole	0.01	not set	99	–	0
epoxiconazole	whole	0.01	not set	99	–	0
etridiazole	whole	0.01	not set	99	–	0
fenarimol	whole	0.01	not set	99	–	0
fenbuconazole	whole	0.01	not set	99	–	0
fenhexamid	whole	0.01	not set	99	–	0
fluazinam	whole	0.01	not set	99	–	0
fludioxonil	whole	0.01	not set	99	–	0
fluopyram	whole	0.01	0.05	99	0	0
fluquinconazole	whole	0.01	not set	99	–	0
flusilazole	whole	0.01	not set	99	–	0
flutriafol	whole	0.01	0.5	99	0	0
hexaconazole	whole	0.01	not set	99	–	0
imazalil	whole	0.01	not set	99	–	0
iprodione	whole	0.01	0.02	99	0	0
kresoxim-methyl	whole	0.01	not set	99	–	0
mandestrobin	whole	0.01	not set	99	–	0
metalaxyl	whole	0.01	not set	99	–	0
metrafenone	whole	0.01	not set	99	–	0
myclobutanil	whole	0.01	not set	99	–	0
oxadixyl	whole	0.01	not set	99	–	0
paclobutrazol	whole	0.01	not set	99	–	0
penconazole	whole	0.01	not set	99	–	0
penthiopyrad	whole	0.01	0.1	99	0	0
prochloraz	whole	0.01	not set	99	–	0
procymidone	whole	0.01	not set	99	–	0
propiconazole	whole	0.01	0.2	99	0	0
prothioconazole	whole	0.05	not set	99	–	0
pyraclostrobin	whole	0.01	0.01	99	0	0
pyrimethanil	whole	0.01	not set	99	0	0
tebuconazole	whole	0.01	0.01	99	0	0
thiabendazole	whole	0.01	not set	99	–	0
tolclofos methyl	whole	0.01	not set	99	–	0
triadimefon	whole	0.01	not set	99	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triadimenol	whole	0.01	not set	99	–	0
trifloxystrobin	whole	0.01	0.05	99	0	0
triforine	whole	0.01	not set	99	–	0
triticonazole	whole	0.01	not set	99	–	0
vinclozolin	whole	0.01	not set	99	–	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	99	–	0
2,4-D	whole	0.01	0.05	99	0	0
amitrole	whole	0.01	not set	79	–	0
atrazine	whole	0.01	not set	99	–	0
bromacil	whole	0.01	not set	99	–	0
bromoxynil	whole	0.01	not set	99	–	0
carfentrazone-ethyl	whole	0.01	0.05	99	0	0
chlormequat	whole	0.01	not set	79	–	0
chlorpropham	whole	0.05	not set	99	–	0
chlorsulfuron	whole	0.01	not set	99	–	0
chlorthal-dimethyl	whole	0.01	not set	99	–	0
clethodim (parent only)	whole	0.01	not set	99	–	0
clodinafop-propargyl	whole	0.01	not set	99	–	0
clopyralid	whole	0.05	not set	99	–	0
cyanazine	whole	0.01	not set	99	–	0
dicamba	whole	0.01	not set	99	–	0
dichlobenil	whole	0.01	not set	99	–	0
dichlorprop	whole	0.01	not set	79	–	0
diclofop-methyl	whole	0.01	not set	79	–	0
diflufenican	whole	0.01	not set	99	–	0
diquat	whole	0.01	0.05	79	0	0
diuron	whole	0.01	not set	99	–	0
ethofumesate	whole	0.01	not set	99	–	0
fenoxaprop-ethyl	whole	0.01	not set	99	–	0
flamprop-M-methyl	whole	0.01	not set	79	–	0
fluazifop-p-butyl	whole	0.01	not set	79	–	0
flumioxazin	whole	0.02	0.02	99	0	0
glufosinate	whole	0.01	0.1	79	0	0
glyphosate	whole	0.01	0.2	79	3	0
haloxyfop	whole	0.01	0.05	79	0	2

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
iodosulfuron-methyl	whole	0.01	not set	99	–	0
ioxynil	whole	0.01	not set	99	–	0
isoxaben	whole	0.01	0.01	99	0	0
linuron	whole	0.05	not set	99	–	0
MCPA	whole	0.01	not set	99	–	0
methabenzthiazuron	whole	0.01	not set	99	–	0
metolachlor	whole	0.01	not set	99	–	0
metosulam	whole	0.01	not set	99	–	0
metribuzin	whole	0.01	not set	99	–	0
metsulfuron-methyl	whole	0.01	not set	99	–	0
napropamide	whole	0.01	0.1	99	0	0
norflurazon	whole	0.01	0.2	99	0	0
oryzalin	whole	0.01	0.1	99	0	0
oxyfluorfen	whole	0.01	0.05	99	0	0
paraquat	whole	0.01	0.05	79	1	0
pendimethalin	whole	0.01	0.05	99	0	0
picloram	whole	0.01	not set	99	–	0
propachlor	whole	0.01	not set	99	–	0
propaquizafop	whole	0.01	not set	79	–	0
propyzamide	whole	0.01	not set	99	–	0
quizalofop-ethyl	whole	0.01	not set	79	–	0
quizalofop-P-tefuryl	whole	0.01	not set	79	–	0
saflufenacil	whole	0.01	0.03	99	0	0
sethoxydim	whole	0.01	not set	99	–	0
simazine	whole	0.01	0.1	99	0	0
tralkoxydim	whole	0.01	not set	99	–	0
triasulfuron	whole	0.01	not set	99	–	0
triclopyr	whole	0.01	not set	99	–	0
trifluralin	whole	0.01	not set	99	–	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	99	0	0
acephate	whole	0.05	not set	99	–	0
Acetamiprid	whole	0.01	not set	99	–	0
aldicarb	whole	0.01	not set	99	–	0
amitraz	whole	0.01	not set	99	–	0
azamethiphos	whole	0.01	not set	99	–	0
azinphos-methyl	whole	0.01	not set	99	–	0

Almond residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
bifenazate	whole	0.01	0.1	99	0	0
bifenthrin	whole	0.01	0.1	99	0	0
bioresmethrin	whole	0.01	not set	99	–	0
buprofezin	whole	0.01	0.1	99	0	0
cadusafos	whole	0.005	not set	99	–	0
carbaryl	whole	0.01	not set	99	–	0
carbofuran	whole	0.005	not set	99	–	0
chlorantraniliprole	whole	0.01	0.1	99	0	0
chlorfenapyr	whole	0.01	not set	99	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	99	–	0
chlorpyrifos	whole	0.005	0.05	99	0	0
chlorpyrifos-methyl	whole	0.005	not set	99	–	0
clofentezine	whole	0.01	0.5	99	0	0
clothianidin	whole	0.01	0.05	99	0	0
cyantraniliprole	whole	0.01	0.05	99	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	99	–	0
cyhalothrin (sum of isomers)	whole	0.01	not set	99	–	0
cypermethrin (sum of isomers)	whole	0.01	0.01	99	0	0
deltamethrin	whole	0.01	not set	99	–	0
diazinon	whole	0.01	0.1	99	0	0
dichlorvos	whole	0.01	2	99	0	0
dicofol	whole	0.01	5	99	0	0
diiflubenzuron	whole	0.01	not set	99	–	0
dimethoate	whole	0.01	not set	99	–	0
disulfoton	whole	0.01	not set	99	–	0
emamectin	whole	0.005	not set	99	–	0
esfenvalerate	whole	0.01	not set	60	–	0
ethion	whole	0.01	not set	99	–	0
ethoprophos	whole	0.005	not set	99	–	0
etoxazole	whole	0.01	0.01	99	0	0
fenamiphos	whole	0.01	not set	99	–	0
fenbutatin oxide	whole	0.01	not set	99	–	0
fenitrothion	whole	0.01	not set	99	–	0
fenoxycarb	whole	0.01	not set	99	–	0
fenpyroximate	whole	0.01	not set	99	–	0
fenthion	whole	0.01	not set	99	–	0
fenvalerate (sum of isomers)	whole	0.01	not set	99	–	0
fiipronil	whole	0.01	not set	99	–	0

Almond residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flonicamid	whole	0.01	not set	99	–	0
hexythiazox	whole	0.01	not set	99	–	0
imidacloprid	whole	0.01	not set	99	–	0
indoxacarb	whole	0.01	not set	99	–	0
malathion (maldison)	whole	0.01	8	99	0	0
metaldehyde	whole	0.05	not set	99	–	0
methacrifos	whole	0.01	not set	99	–	0
methamidophos	whole	0.01	not set	99	–	0
methidathion	whole	0.01	not set	99	–	0
methiocarb	whole	0.01	not set	99	–	0
methomyl	whole	0.01	not set	99	–	0
methoprene	whole	0.01	not set	99	–	0
methoxychlor	whole	0.01	not set	99	–	0
methoxyfenozide	whole	0.01	0.2	99	0	0
mevinphos	whole	0.01	not set	99	–	0
monocrotophos	whole	0.01	not set	99	–	0
novaluron	whole	0.01	not set	99	–	0
omethoate	whole	0.01	not set	99	–	0
parathion	whole	0.01	not set	99	–	0
parathion-methyl	whole	0.01	not set	99	–	0
permethrin (sum of isomers)	whole	0.01	not set	99	–	0
phenothrin (sum of isomers)	whole	0.01	not set	99	–	0
phorate	whole	0.01	not set	99	–	0
phosmet	whole	0.01	not set	99	–	0
piperonyl butoxide	whole	0.01	8	99	0	0
pirimicarb	whole	0.01	0.05	99	0	0
pirimiphos-methyl	whole	0.01	not set	99	–	0
profenofos	whole	0.01	not set	99	–	0
propargite	whole	0.01	not set	99	–	0
prothiofos	whole	0.01	not set	99	–	0
pymetrozine	whole	0.01	0.01	99	0	0
pyrethrins	whole	0.05	1	99	0	0
pyridaben	whole	0.02	0.05	99	0	0
pyriproxyfen	whole	0.01	not set	99	–	0
spinetoram	whole	0.01	0.01	99	0	0
spinosad	whole	0.01	0.01	99	0	0
spirotetramat	whole	0.01	not set	99	–	0
sulfoxaflo	whole	0.01	0.02	99	0	0
tau-fluvalinate	whole	0.01	not set	99	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tebufenozide	whole	0.01	not set	99	–	0
tebufenpyrad	whole	0.01	not set	99	–	0
terbufos	whole	0.01	not set	99	–	0
tetradifon	whole	0.01	not set	99	–	0
thiacloprid	whole	0.01	not set	99	–	0
thiamethoxam	whole	0.01	not set	99	–	0
thiodicarb	whole	0.01	not set	99	–	0
triazofos	whole	0.01	not set	99	–	0
trichlorfon	whole	0.01	not set	99	–	0
triflumuron	whole	0.01	not set	99	–	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	99	–	0
chlordane	whole	0.01	not set	99	–	0
DDT	whole	0.01	not set	99	–	0
endosulfan	whole	0.01	not set	99	–	0
endrin	whole	0.01	not set	99	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	99	–	0
HCH (BHC)	whole	0.01	not set	99	–	0
heptachlor	whole	0.01	not set	99	–	0
lindane (gamma-HCH)	whole	0.01	not set	99	–	0
mirex	whole	0.01	not set	99	–	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	11	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	99	–	0