



Macadamia residue testing annual datasets 2016–17

National Residue Survey, Department of Agriculture and Water Resources

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	129	–	0
azoxystrobin	Whole	0.01	2	129	0	0
benalaxyl	Whole	0.01	Not Set	129	–	0
bitertanol	Whole	0.01	Not Set	129	–	0
boscalid	Whole	0.01	0.5	129	0	0
bupirimate	Whole	0.01	Not Set	129	–	0
captafol	Whole	0.05	Not Set	129	–	0
captan	Whole	0.05	3	129	0	0
carbendazim	Whole	0.01	0.1	129	0	0
chlorothalonil	Whole	0.01	Not Set	129	–	0
cyproconazole	Whole	0.01	Not Set	129	–	0
cyprodinil	Whole	0.01	Not Set	129	–	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	0.01	129	0	0
dimethomorph (sum of E and Z isomers)	Whole	0.01	Not Set	129	–	0
dithianon	Whole	0.01	Not Set	129	–	0
dithiocarbamates	Whole	0.2	0.2	129	0	0
dodine	Whole	0.01	Not Set	129	–	0
epoxiconazole	Whole	0.01	Not Set	129	–	0
etridiazole	Whole	0.01	Not Set	129	–	0
fenarimol	Whole	0.01	Not Set	129	–	0
fenhexamid	Whole	0.01	Not Set	129	–	0
fluazinam	Whole	0.01	Not Set	129	–	0
fludioxonil	Whole	0.01	Not Set	129	–	0
fluquinconazole	Whole	0.01	Not Set	129	–	0
flusilazole	Whole	0.01	Not Set	129	–	0
flutriafol	Whole	0.01	Not Set	129	–	0
hexaconazole	Whole	0.01	Not Set	129	–	0
imazalil	Whole	0.01	Not Set	129	–	0
iprodione	Whole	0.02	0.01	129	0	0
kresoxim-methyl	Whole	0.01	Not Set	129	–	0
metalaxyl	Whole	0.01	1	129	0	0
metrafenone	Whole	0.01	Not Set	129	–	0
myclobutanil	Whole	0.01	Not Set	129	–	0
oxadixyl	Whole	0.01	Not Set	129	–	0
paclobutrazol	Whole	0.01	Not Set	129	–	0
penconazole	Whole	0.01	Not Set	129	–	0
penthiopyrad	Whole	0.01	0.1	129	0	0
prochloraz	Whole	0.01	Not Set	129	–	0
procymidone	Whole	0.01	Not Set	129	–	0
propiconazole	Whole	0.01	0.2	129	0	0
prothioconazole	Whole	0.05	Not Set	129	–	0
pyraclostrobin	Whole	0.01	0.01	129	0	0
pyrimethanil	Whole	0.01	Not Set	129	–	0
tebuconazole	Whole	0.01	Not Set	129	–	0
thiabendazole	Whole	0.01	Not Set	129	–	0
tolclofos methyl	Whole	0.01	Not Set	129	–	0
triadimefon	Whole	0.01	Not Set	129	–	0
triadimenol	Whole	0.01	Not Set	129	–	0
trifloxystrobin	Whole	0.01	0.05	129	0	0
triticonazole	Whole	0.01	Not Set	129	–	0
vinclozolin	Whole	0.01	Not Set	129	–	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	129	–	0
2,4-D	Whole	0.01	Not Set	129	–	0
amitrole	Whole	0.01	Not Set	7	–	0
atrazine	Whole	0.01	Not Set	129	–	0
bromacil	Whole	0.01	Not Set	129	–	0
bromoxynil	Whole	0.01	Not Set	129	–	0
carfentrazone-ethyl	Whole	0.01	0.05	129	0	0
chlorpropham	Whole	0.05	Not Set	129	–	0
chlorsulfuron	Whole	0.01	Not Set	129	–	0
chlorthal-dimethyl	Whole	0.01	Not Set	129	–	0
clethodim (parent only)	Whole	0.01	Not Set	129	–	0
clodinafop-propargyl	Whole	0.01	Not Set	129	–	0
clopyralid	Whole	0.05	Not Set	129	–	0
cyanazine	Whole	0.01	Not Set	129	–	0
dicamba	Whole	0.01	Not Set	129	–	0
dichlobenil	Whole	0.01	Not Set	129	–	0
dichlorprop-P	Whole	0.01	Not Set	129	–	0
diclofop-methyl	Whole	0.01	Not Set	7	–	0
diflufenican	Whole	0.01	Not Set	129	–	0
diquat	Whole	0.01	0.05	7	0	0
diuron	Whole	0.01	Not Set	129	–	0
ethofumesate	Whole	0.01	Not Set	129	–	0
fenoxaprop-ethyl	Whole	0.01	Not Set	7	–	0
flamprop-M-methyl	Whole	0.01	Not Set	7	–	0
fluazifop-p-butyl	Whole	0.01	Not Set	7	–	0
glufosinate	Whole	0.01	0.1	7	0	0
glyphosate	Whole	0.01	0.2	7	0	0
haloxyfop	Whole	0.01	Not Set	7	–	0
iodosulfuron-methyl	Whole	0.01	Not Set	129	–	0
ioxynil	Whole	0.01	Not Set	129	–	0
isoxaben	Whole	0.01	0.01	129	0	0
linuron	Whole	0.05	Not Set	129	–	0
MCPA	Whole	0.01	Not Set	129	–	0
methabenzthiazuron	Whole	0.01	Not Set	129	–	0
metolachlor	Whole	0.01	Not Set	129	–	0
metosulam	Whole	0.01	Not Set	129	–	0
metribuzin	Whole	0.01	Not Set	129	–	0
metsulfuron-methyl	Whole	0.01	Not Set	129	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
napropamide	Whole	0.01	Not Set	129	–	0
norflurazon	Whole	0.01	0.2	129	0	0
oryzalin	Whole	0.01	0.1	129	0	0
oxyfluorfen	Whole	0.01	0.05	129	0	0
paraquat	Whole	0.01	0.05	7	0	0
pendimethalin	Whole	0.01	0.05	129	0	0
picloram	Whole	0.01	Not Set	129	–	0
propachlor	Whole	0.01	Not Set	129	–	0
propyzamide	Whole	0.01	Not Set	129	–	0
quizalofop-ethyl	Whole	0.01	Not Set	129	–	0
quizalofop-P-tefuryl	Whole	0.01	Not Set	129	–	0
saflufenacil	Whole	0.01	0.03	129	0	0
sethoxydim	Whole	0.01	Not Set	129	–	0
simazine	Whole	0.01	0.1	129	0	0
tralkoxydim	Whole	0.01	Not Set	129	–	0
triasulfuron	Whole	0.01	Not Set	129	–	0
triclopyr	Whole	0.01	Not Set	129	–	0
trifluralin	Whole	0.01	Not Set	129	–	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	129	0	0
acephate	Whole	0.05	0.1	129	0	0
acetamiprid	Whole	0.01	Not Set	129	–	0
aldicarb	Whole	0.01	Not Set	129	–	0
amitraz	Whole	0.01	Not Set	129	–	0
azamethiphos	Whole	0.01	Not Set	129	–	0
azinphos-methyl	Whole	0.01	0.01	129	0	0
bifenazate	Whole	0.01	Not Set	129	–	0
bifenthrin	Whole	0.01	Not Set	129	–	0
bioresmethrin	Whole	0.01	Not Set	129	–	0
buprofezin	Whole	0.01	Not Set	129	–	0
cadusafos	Whole	0.01	Not Set	129	–	0
carbaryl	Whole	0.01	2	129	0	0
carbofuran	Whole	0.01	Not Set	129	–	0
chlorantraniliprole	Whole	0.01	0.01	129	0	0
chlorfenapyr	Whole	0.01	Not Set	129	–	0
chlorfenvinphos (sum of isomers)	Whole	0.01	Not Set	129	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorpyrifos	Whole	0.01	0.05	129	0	0
chlorpyrifos-methyl	Whole	0.01	Not Set	129	–	0
clofentezine	Whole	0.01	Not Set	129	–	0
clothianidin	Whole	0.01	Not Set	129	–	0
cyfluthrin (sum of isomers)	Whole	0.01	0.05	129	0	0
cyhalothrin (sum of isomers)	Whole	0.01	Not Set	129	–	0
cypermethrin (sum of isomers)	Whole	0.01	0.01	129	0	0
deltamethrin	Whole	0.01	Not Set	129	–	0
diazinon	Whole	0.01	0.1	129	0	0
dichlorvos	Whole	0.01	2	129	0	0
dicofol	Whole	0.01	Not Set	129	–	0
diflubenzuron	Whole	0.01	Not Set	129	–	0
dimethoate	Whole	0.01	Not Set	129	–	0
disulfoton	Whole	0.01	Not Set	129	–	0
emamectin	Whole	0.01	Not Set	129	–	0
esfenvalerate	Whole	0.01	Not Set	129	–	0
ethion	Whole	0.01	Not Set	129	–	0
ethoprophos	Whole	0.005	Not Set	129	–	0
etoxazole	Whole	0.01	Not Set	129	–	0
fenamiphos	Whole	0.01	Not Set	129	–	0
fenbutatin oxide	Whole	0.01	Not Set	129	–	0
fenitrothion	Whole	0.01	Not Set	129	–	0
fenoxycarb	Whole	0.01	Not Set	129	–	0
fenpyroximate	Whole	0.01	Not Set	129	–	0
fenthion	Whole	0.01	Not Set	129	–	0
fenvalerate (sum of isomers)	Whole	0.01	Not Set	129	–	0
fipronil	Whole	0.01	Not Set	129	–	0
flonicamid	Whole	0.01	Not Set	129	–	0
hexythiazox	Whole	0.01	Not Set	129	–	0
imidacloprid	Whole	0.01	Not Set	129	–	0
indoxacarb	Whole	0.01	Not Set	129	–	0
malathion (maldison)	Whole	0.01	8	129	0	0
metaldehyde	Whole	0.05	Not Set	129	–	0
methacrifos	Whole	0.01	Not Set	129	–	0
methamidophos	Whole	0.01	Not Set	129	–	0
methidathion	Whole	0.01	0.01	129	0	0
methiocarb	Whole	0.01	Not Set	129	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
methomyl	Whole	0.01	1	129	0	0
methoprene	Whole	0.01	Not Set	129	–	0
methoxychlor	Whole	0.01	Not Set	129	–	0
methoxyfenozide	Whole	0.01	0.05	129	0	0
mevinphos	Whole	0.01	Not Set	129	–	0
monocrotophos	Whole	0.01	Not Set	129	–	0
omethoate	Whole	0.01	Not Set	129	–	0
parathion	Whole	0.01	Not Set	129	–	0
parathion-methyl	Whole	0.01	Not Set	129	–	0
permethrin (sum of isomers)	Whole	0.01	Not Set	129	–	0
phenothrin (sum of isomers)	Whole	0.01	Not Set	129	–	0
phorate	Whole	0.01	Not Set	129	–	0
phosmet	Whole	0.01	Not Set	129	–	0
piperonyl butoxide	Whole	0.01	8	129	0	0
pirimicarb	Whole	0.01	0.05	129	0	0
pirimiphos-methyl	Whole	0.01	Not Set	129	–	0
profenofos	Whole	0.01	Not Set	129	–	0
propargite	Whole	0.01	Not Set	129	–	0
prothiofos	Whole	0.01	Not Set	129	–	0
pymetrozine	Whole	0.01	Not Set	129	–	0
pyrethrins	Whole	0.05	1	129	0	0
pyridaben	Whole	0.02	0.05	129	0	0
pyriproxyfen	Whole	0.01	Not Set	129	–	0
spinetoram	Whole	0.01	0.02	129	0	0
spinosad	Whole	0.01	0.01	129	0	0
spirotetramat	Whole	0.01	Not Set	129	–	0
sulfoxaflor	Whole	0.01	Not Set	129	–	0
tau-fluvalinate	Whole	0.01	Not Set	129	–	0
tebufenozide	Whole	0.01	0.05	129	0	0
tebufenpyrad	Whole	0.01	Not Set	129	–	0
terbufos	Whole	0.01	Not Set	129	–	0
tetradifon	Whole	0.01	Not Set	129	–	0
thiacloprid	Whole	0.01	Not Set	129	–	0
thiamethoxam	Whole	0.01	Not Set	129	–	0
thiodicarb	Whole	0.01	Not Set	129	–	0
triazofos	Whole	0.01	Not Set	129	–	0
trichlorfon	Whole	0.01	0.1	129	0	0
triflumuron	Whole	0.01	Not Set	129	–	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	129	–	0
chlordane	Whole	0.01	Not Set	129	–	0
DDT	Whole	0.01	Not Set	129	–	0
endosulfan	Whole	0.01	Not Set	129	–	0
endrin	Whole	0.01	Not Set	129	–	0
HCB (hexachlorobenzene)	Whole	0.01	Not Set	129	–	0
HCH (BHC)	Whole	0.01	Not Set	129	–	0
heptachlor	Whole	0.01	Not Set	129	–	0
lindane (gamma-HCH)	Whole	0.01	Not Set	129	–	0
mirex	Whole	0.01	Not Set	129	–	0

Table 4 - Physiological Modifier

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diphenylamine	Whole	0.01	Not Set	129	–	0