



Macadamia 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.

Disclaimer

Although the Australian Government has exercised due care and skill in the preparation and compilation of this publication, it does not warrant its accuracy, completeness, currency or suitability for any purpose. To the maximum extent permitted by law, the Australian Government disclaims all liability, including liability in negligence for any loss, damage, cost or expense incurred by persons as a result of accessing, using or relying on any of the information or data set out in this publication. Before relying on the material in any matters, users should carefully evaluate its accuracy, currency, completeness and relevance for the purposes intended, and should obtain any appropriate professional advice relevant to their particular circumstances.

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	110	–	0
azoxystrobin	whole	0.01	0.01	110	0	0
benalaxyl	whole	0.01	not set	110	–	0
bitertanol	whole	0.01	not set	110	–	0
boscalid	whole	0.01	0.5	110	0	0
bupirimate	whole	0.01	not set	110	–	0
captafol	whole	0.05	not set	110	–	0
captan	whole	0.05	3	110	0	0
carbendazim	whole	0.01	0.1	110	0	0
chlorothalonil	whole	0.01	not set	110	–	0

Macadamia 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	not set	110	–	0
cyprodinil	whole	0.01	not set	110	–	0
difenoconazole	whole	0.01	0.01	110	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	110	–	0
dithianon	whole	0.01	not set	110	–	0
dithiocarbamates	whole	0.2	not set	110	–	0
dodine	whole	0.01	not set	110	–	0
epoxiconazole	whole	0.01	not set	110	–	0
etridiazole	whole	0.01	not set	110	–	0
fenarimol	whole	0.01	not set	110	–	0
fenbuconazole	whole	0.01	not set	110	–	0
fenhexamid	whole	0.01	not set	110	–	0
fluazinam	whole	0.01	not set	110	–	0
fludioxonil	whole	0.01	not set	110	–	0
fluopyram	whole	0.01	not set	110	–	0
fluquinconazole	whole	0.01	not set	110	–	0
flusilazole	whole	0.01	not set	110	–	0
flutriafol	whole	0.01	0.5	110	0	0
hexaconazole	whole	0.01	not set	110	–	0
imazalil	whole	0.01	not set	110	–	0
iprodione	whole	0.01	0.01	110	0	0
kresoxim-methyl	whole	0.01	not set	110	–	0
mandestrobin	whole	0.01	not set	110	–	0
metalaxyl	whole	0.01	1	110	0	0
metrafenone	whole	0.01	not set	110	–	0
myclobutanil	whole	0.01	not set	110	–	0
oxadixyl	whole	0.01	not set	110	–	0
paclobutrazol	whole	0.01	not set	110	–	0
penconazole	whole	0.01	not set	110	–	0
penthiopyrad	whole	0.01	0.1	110	0	0
prochloraz	whole	0.01	not set	110	–	0
procymidone	whole	0.01	not set	110	–	0
propiconazole	whole	0.01	0.2	110	0	0
prothioconazole	whole	0.05	not set	110	–	0
pyraclostrobin	whole	0.01	0.01	110	0	0
pyrimethanil	whole	0.01	not set	110	–	0
tebuconazole	whole	0.01	0.01	110	0	0
thiabendazole	whole	0.01	not set	110	–	0
tolclofos methyl	whole	0.01	not set	110	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triadimefon	whole	0.01	not set	110	–	0
triadimenol	whole	0.01	not set	110	–	0
trifloxystrobin	whole	0.01	0.05	110	0	0
triforine	whole	0.01	not set	110	–	0
triticonazole	whole	0.01	not set	110	–	0
vinclozolin	whole	0.01	not set	110	–	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	110	–	0
2,4-D	whole	0.01	not set	110	–	0
amitrole	whole	0.01	not set	10	–	0
atrazine	whole	0.01	not set	110	–	0
bromacil	whole	0.01	not set	110	–	0
bromoxynil	whole	0.01	not set	110	–	0
carfentrazone-ethyl	whole	0.01	0.05	110	0	0
chlorpropham	whole	0.05	not set	110	–	0
chlorsulfuron	whole	0.01	not set	110	–	0
chlorthal-dimethyl	whole	0.01	not set	110	–	0
clethodim (parent only)	whole	0.01	not set	110	–	0
clodinafop-propargyl	whole	0.01	not set	110	–	0
clopyralid	whole	0.05	not set	110	–	0
cyanazine	whole	0.01	not set	110	–	0
dicamba	whole	0.01	not set	110	–	0
dichlobenil	whole	0.01	not set	110	–	0
dichlorprop-P	whole	0.01	not set	110	–	0
diclofop-methyl	whole	0.01	not set	10	–	0
diflufenican	whole	0.01	not set	110	–	0
diquat	whole	0.01	0.05	10	0	0
diuron	whole	0.01	not set	110	–	0
ethofumesate	whole	0.01	not set	110	–	0
fenoxaprop-ethyl	whole	0.01	not set	10	–	0
flamprop-M-methyl	whole	0.01	not set	10	–	0
fluazifop-p-butyl	whole	0.01	not set	10	–	0
flumioxazin	whole	0.02	0.02	110	0	0
glufosinate	whole	0.01	0.1	10	0	0
glyphosate	whole	0.01	0.2	10	0	0
haloxyfop	whole	0.01	not set	10	–	0

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	110	–	0
ioxynil	whole	0.01	not set	110	–	0
isoxaben	whole	0.01	0.01	110	0	0
linuron	whole	0.05	not set	110	–	0
MCPA	whole	0.01	not set	110	–	0
methabenzthiazuron	whole	0.01	not set	110	–	0
metolachlor	whole	0.01	not set	110	–	0
metosulam	whole	0.01	not set	110	–	0
metribuzin	whole	0.01	not set	110	–	0
metsulfuron-methyl	whole	0.01	not set	110	–	0
napropamide	whole	0.01	not set	110	–	0
norflurazon	whole	0.01	0.2	110	0	0
oryzalin	whole	0.01	0.1	110	0	0
oxyfluorfen	whole	0.01	0.05	110	0	0
paraquat	whole	0.01	0.05	10	0	0
pendimethalin	whole	0.01	0.05	110	0	0
picloram	whole	0.01	not set	110	–	0
propachlor	whole	0.01	not set	110	–	0
propyzamide	whole	0.01	not set	110	–	0
quizalofop-ethyl	whole	0.01	not set	110	–	0
quizalofop-P-tefuryl	whole	0.01	not set	110	–	0
saflufenacil	whole	0.01	0.03	110	0	0
sethoxydim	whole	0.01	not set	110	–	0
simazine	whole	0.01	0.1	110	0	0
tralkoxydim	whole	0.01	not set	110	–	0
triasulfuron	whole	0.01	not set	110	–	0
triclopyr	whole	0.01	not set	110	–	0
trifluralin	whole	0.01	not set	110	–	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	110	0	0
acephate	whole	0.05	0.1	110	0	0
acetamiprid	whole	0.01	0.01	110	0	0
aldicarb	whole	0.01	not set	110	–	0
amitraz	whole	0.01	not set	110	–	0
azamethiphos	whole	0.01	not set	110	–	0
azinphos-methyl	whole	0.01	0.01	110	0	0

Macadamia residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
bifenazate	whole	0.01	not set	110	–	0
bifenthrin	whole	0.01	not set	110	–	0
bioresmethrin	whole	0.01	not set	110	–	0
buprofezin	whole	0.01	not set	110	–	0
cadusafos	whole	0.005	not set	110	–	0
carbaryl	whole	0.01	2	110	0	0
carbofuran	whole	0.005	not set	110	–	0
chlorantraniliprole	whole	0.01	0.1	110	0	0
chlorfenapyr	whole	0.01	not set	110	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	110	–	0
chlorpyrifos	whole	0.01	0.05	110	0	0
chlorpyrifos-methyl	whole	0.01	not set	110	–	0
clofentezine	whole	0.01	not set	110	–	0
clothianidin	whole	0.01	0.1	110	0	0
cyantraniliprole	whole	0.01	0.05	110	0	0
cyfluthrin (sum of isomers)	whole	0.01	0.05	110	0	0
cyhalothrin (sum of isomers)	whole	0.01	not set	110	–	0
cypermethrin (sum of isomers)	whole	0.01	0.01	110	0	0
deltamethrin	whole	0.01	not set	110	–	0
diazinon	whole	0.01	0.1	110	0	0
dichlorvos	whole	0.01	2	110	0	0
dicofol	whole	0.01	not set	110	–	0
diflubenzuron	whole	0.01	not set	110	–	0
dimethoate	whole	0.01	not set	110	–	0
disulfoton	whole	0.01	not set	110	–	0
emamectin	whole	0.005	not set	110	–	0
esfenvalerate	whole	0.01	not set	110	–	0
ethion	whole	0.01	not set	110	–	0
ethoprophos	whole	0.005	not set	110	–	0
etoxazole	whole	0.01	not set	110	–	0
fenamiphos	whole	0.01	not set	110	–	0
fenbutatin oxide	whole	0.01	not set	110	–	0
fenitrothion	whole	0.01	not set	110	–	0
fenoxycarb	whole	0.01	not set	110	–	0
fenpyroximate	whole	0.01	not set	110	–	0
fenthion	whole	0.01	not set	110	–	0
fenvalerate (sum of isomers)	whole	0.01	not set	110	–	0

Macadamia residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fipronil	whole	0.01	not set	110	–	0
flonicamid	whole	0.01	not set	110	–	0
hexythiazox	whole	0.01	not set	110	–	0
imidacloprid	whole	0.01	not set	110	–	0
indoxacarb	whole	0.01	0.01	110	0	0
malathion (maldison)	whole	0.01	8	110	0	0
metaldehyde	whole	0.05	not set	110	–	0
methacrifos	whole	0.01	not set	110	–	0
methamidophos	whole	0.01	not set	110	–	0
methidathion	whole	0.01	0.01	110	0	0
methiocarb	whole	0.01	not set	110	–	0
methomyl	whole	0.01	1	110	0	0
methoprene	whole	0.01	not set	110	–	0
methoxychlor	whole	0.01	not set	110	–	0
methoxyfenozide	whole	0.01	0.05	110	0	0
mevinphos	whole	0.01	not set	110	–	0
monocrotophos	whole	0.01	not set	110	–	0
novaluron	whole	0.01	not set	110	–	0
omethoate	whole	0.01	not set	110	–	0
parathion	whole	0.01	not set	110	–	0
parathion-methyl	whole	0.01	not set	110	–	0
permethrin (sum of isomers)	whole	0.01	not set	110	–	0
phenothrin (sum of isomers)	whole	0.01	not set	110	–	0
phorate	whole	0.01	not set	110	–	0
phosmet	whole	0.01	not set	110	–	0
piperonyl butoxide	whole	0.01	8	110	0	0
pirimicarb	whole	0.01	0.05	110	0	0
pirimiphos-methyl	whole	0.01	not set	110	–	0
profenofos	whole	0.01	not set	110	–	0
propargite	whole	0.01	not set	110	–	0
prothiofos	whole	0.01	not set	110	–	0
pymetrozine	whole	0.01	not set	110	–	0
pyrethrins	whole	0.05	1	110	0	0
pyridaben	whole	0.02	0.05	110	0	0
pyriproxyfen	whole	0.01	0.01	110	0	0
spinetoram	whole	0.01	0.02	110	0	0
spinosad	whole	0.01	0.01	110	0	0
spirotetramat	whole	0.01	not set	110	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
sulfoxaflor	whole	0.01	0.01	110	0	0
tau-fluvalinate	whole	0.01	not set	110	–	0
tebufenozide	whole	0.01	0.05	110	0	0
tebufenpyrad	whole	0.01	not set	110	–	0
terbufos	whole	0.01	not set	110	–	0
tetradifon	whole	0.01	not set	110	–	0
thiacloprid	whole	0.01	not set	110	–	0
thiamethoxam	whole	0.01	not set	110	–	0
thiodicarb	whole	0.01	not set	110	–	0
triazofos	whole	0.01	not set	110	–	0
trichlorfon	whole	0.01	0.1	110	0	0
triflumuron	whole	0.01	not set	110	–	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	110	–	0
chlordane	whole	0.01	not set	110	–	0
DDT	whole	0.01	not set	110	–	0
endosulfan	whole	0.01	not set	110	–	0
endrin	whole	0.01	not set	110	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	110	–	0
HCH (BHC)	whole	0.01	not set	110	–	0
heptachlor	whole	0.01	not set	110	–	0
lindane (gamma-HCH)	whole	0.01	not set	110	–	0
mirex	whole	0.01	not set	110	–	0

Table 5 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	110	–	0