



Macadamia 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	128	–	0
azoxystrobin	whole	0.01	0.01	128	0	0
benalaxyl	whole	0.01	not set	128	–	0
bitertanol	whole	0.01	not set	128	–	0
boscalid	whole	0.01	0.5	128	0	0
bupirimate	whole	0.01	not set	128	–	0
captafol	whole	0.05	not set	128	–	0
captan	whole	0.05	3	128	0	0
carbendazim	whole	0.01	0.1	128	0	0
chlorothalonil	whole	0.01	not set	128	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	not set	128	–	0
cyprodinil	whole	0.01	not set	128	–	0
difenoconazole	whole	0.01	0.01	128	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	128	–	0
dithianon	whole	0.01	not set	128	–	0
dithiocarbamates	whole	0.2	not set	128	–	0
dodine	whole	0.01	not set	128	–	0
epoxiconazole	whole	0.01	not set	128	–	0
etridiazole	whole	0.01	not set	128	–	0
fenarimol	whole	0.01	not set	128	–	0
fenbuconazole	whole	0.01	not set	128	–	0
fenhexamid	whole	0.01	not set	128	–	0
fluazinam	whole	0.01	not set	128	–	0
fludioxonil	whole	0.01	not set	128	–	0
fluopyram	whole	0.01	0.2	128	0	0
fluquinconazole	whole	0.01	not set	128	–	0
flusilazole	whole	0.01	not set	128	–	0
flutriafol	whole	0.01	0.5	128	0	0
hexaconazole	whole	0.01	not set	128	–	0
imazalil	whole	0.01	not set	128	–	0
iprodione	whole	0.01	0.01	128	0	0
kresoxim-methyl	whole	0.01	not set	128	–	0
mandestrobin	whole	0.01	not set	128	–	0
metalaxyl	whole	0.01	1	128	0	0
metrafenone	whole	0.01	not set	128	–	0
myclobutanil	whole	0.01	not set	128	–	0
oxadixyl	whole	0.01	not set	128	–	0
paclobutrazol	whole	0.01	not set	128	–	0
penconazole	whole	0.01	not set	128	–	0
penthiopyrad	whole	0.01	0.1	128	0	0
prochloraz	whole	0.01	not set	128	–	0
procymidone	whole	0.01	not set	128	–	0
propiconazole	whole	0.01	0.2	128	0	0
prothioconazole	whole	0.05	not set	128	–	0
pyraclostrobin	whole	0.01	0.01	128	0	0
pyrimethanil	whole	0.01	not set	128	–	0
tebuconazole	whole	0.01	0.01	128	0	0
thiabendazole	whole	0.01	not set	128	–	0
tolclofos methyl	whole	0.01	not set	128	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triadimefon	whole	0.01	not set	128	–	0
triadimenol	whole	0.01	not set	128	–	0
trifloxystrobin	whole	0.01	0.05	128	0	0
triforine	whole	0.01	not set	128	–	0
triticonazole	whole	0.01	not set	128	–	0
vinclozolin	whole	0.01	not set	128	–	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	128	–	0
2,4-D	whole	0.01	not set	128	–	0
amitrole	whole	0.01	not set	26	–	0
atrazine	whole	0.01	not set	128	–	0
bromacil	whole	0.01	not set	128	–	0
bromoxynil	whole	0.01	not set	128	–	0
carfentrazone-ethyl	whole	0.01	0.05	128	0	0
chlormequat	whole	0.01	not set	25	–	0
chlorpropham	whole	0.05	not set	128	–	0
chlorsulfuron	whole	0.01	not set	128	–	0
chlorthal-dimethyl	whole	0.01	not set	128	–	0
clethodim (parent only)	whole	0.01	not set	128	–	0
clodinafop-propargyl	whole	0.01	not set	128	–	0
clopyralid	whole	0.05	not set	128	–	0
cyanazine	whole	0.01	not set	128	–	0
dicamba	whole	0.01	not set	128	–	0
dichlobenil	whole	0.01	not set	128	–	0
dichlorprop	whole	0.01	not set	84	–	0
diclofop-methyl	whole	0.01	not set	26	–	0
diflufenican	whole	0.01	not set	128	–	0
diquat	whole	0.01	0.05	26	0	0
diuron	whole	0.01	not set	128	–	0
ethofumesate	whole	0.01	not set	128	–	0
fenoxaprop-ethyl	whole	0.01	not set	125	–	0
flamprop-M-methyl	whole	0.01	not set	26	–	0
fluazifop-p-butyl	whole	0.01	not set	26	–	0
flumioxazin	whole	0.02	0.02	128	0	0
glufosinate	whole	0.01	0.1	26	0	0
glyphosate	whole	0.01	0.2	26	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
haloxyfop	whole	0.01	0.05	26	1	1
iodosulfuron-methyl	whole	0.01	not set	128	–	0
ioxynil	whole	0.01	not set	128	–	0
isoxaben	whole	0.01	0.01	128	0	0
linuron	whole	0.05	not set	128	–	0
MCPA	whole	0.01	not set	128	–	0
methabenzthiazuron	whole	0.01	not set	128	–	0
metolachlor	whole	0.01	not set	128	–	0
metosulam	whole	0.01	not set	128	–	0
metribuzin	whole	0.01	not set	128	–	0
metsulfuron-methyl	whole	0.01	not set	128	–	0
napropamide	whole	0.01	not set	128	–	0
norflurazon	whole	0.01	0.2	128	0	0
oryzalin	whole	0.01	0.1	128	0	0
oxyfluorfen	whole	0.01	0.05	128	0	0
paraquat	whole	0.01	0.05	26	0	0
pendimethalin	whole	0.01	0.05	128	0	0
picloram	whole	0.01	not set	128	–	0
propachlor	whole	0.01	not set	128	–	0
propaquizafop	whole	0.01	not set	25	–	0
propyzamide	whole	0.01	not set	128	–	0
quizalofop-ethyl	whole	0.01	not set	30	–	0
quizalofop-P-tefuryl	whole	0.01	not set	30	–	0
saflufenacil	whole	0.01	0.03	128	0	0
sethoxydim	whole	0.01	not set	128	–	0
simazine	whole	0.01	0.1	128	0	0
tralkoxydim	whole	0.01	not set	128	–	0
triasulfuron	whole	0.01	not set	128	–	0
triclopyr	whole	0.01	not set	128	–	0
trifluralin	whole	0.01	not set	128	–	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	128	0	0
acephate	whole	0.05	0.1	128	0	0
acetamiprid	whole	0.01	0.01	128	0	0
aldicarb	whole	0.01	not set	128	–	0
amitraz	whole	0.01	not set	128	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
azamethiphos	whole	0.01	not set	128	–	0
azinphos-methyl	whole	0.01	0.01	128	0	0
bifenazate	whole	0.01	not set	128	–	0
bifenthrin	whole	0.01	not set	128	–	0
bioresmethrin	whole	0.01	not set	128	–	0
buprofezin	whole	0.01	0.1	128	0	0
cadusafos	whole	0.005	not set	128	–	0
carbaryl	whole	0.01	2	128	0	0
carbofuran	whole	0.005	not set	128	–	0
chlorantraniliprole	whole	0.01	0.1	128	0	0
chlorfenapyr	whole	0.01	not set	128	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	128	–	0
chlorpyrifos	whole	0.005	0.05	128	0	0
chlorpyrifos-methyl	whole	0.005	not set	128	–	0
clofentezine	whole	0.01	not set	128	–	0
clothianidin	whole	0.01	0.1	128	0	0
cyantraniliprole	whole	0.01	0.05	128	0	0
cyfluthrin (sum of isomers)	whole	0.01	0.05	128	0	0
cyhalothrin (sum of isomers)	whole	0.01	not set	128	–	0
cypermethrin (sum of isomers)	whole	0.01	0.01	128	0	0
deltamethrin	whole	0.01	not set	128	–	0
diazinon	whole	0.01	0.1	128	0	0
dichlorvos	whole	0.01	2	128	0	0
dicofol	whole	0.01	not set	128	–	0
diflubenzuron	whole	0.01	not set	128	–	0
dimethoate	whole	0.01	not set	128	–	0
disulfoton	whole	0.01	not set	128	–	0
emamectin	whole	0.005	not set	128	–	0
esfenvalerate	whole	0.01	not set	59	–	0
ethion	whole	0.01	not set	128	–	0
ethoprophos	whole	0.005	not set	128	–	0
etoxazole	whole	0.01	not set	128	–	0
fenamiphos	whole	0.01	not set	128	–	0
fenbutatin oxide	whole	0.01	not set	128	–	0
fenitrothion	whole	0.01	not set	128	–	0
fenoxycarb	whole	0.01	not set	128	–	0
fenpyroximate	whole	0.01	not set	128	–	0
fenthion	whole	0.01	not set	128	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fenvalerate (sum of isomers)	whole	0.01	not set	128	–	0
fipronil	whole	0.01	not set	128	–	0
flonicamid	whole	0.01	not set	128	–	0
hexythiazox	whole	0.01	not set	128	–	0
imidacloprid	whole	0.01	not set	128	–	0
indoxacarb	whole	0.01	0.01	128	0	0
malathion (maldison)	whole	0.01	8	128	0	0
metaldehyde	whole	0.05	not set	128	–	0
methacrifos	whole	0.01	not set	128	–	0
methamidophos	whole	0.01	not set	128	–	0
methidathion	whole	0.01	not set	128	–	0
methiocarb	whole	0.01	not set	128	–	0
methomyl	whole	0.01	1	128	0	0
methoprene	whole	0.01	not set	128	–	0
methoxychlor	whole	0.01	not set	128	–	0
methoxyfenozide	whole	0.01	0.05	128	0	0
mevinphos	whole	0.01	not set	128	–	0
monocrotophos	whole	0.01	not set	128	–	0
novaluron	whole	0.01	not set	128	–	0
omethoate	whole	0.01	not set	128	–	0
parathion	whole	0.01	not set	128	–	0
parathion-methyl	whole	0.01	not set	128	–	0
permethrin (sum of isomers)	whole	0.01	not set	128	–	0
phenothrin (sum of isomers)	whole	0.01	not set	128	–	0
phorate	whole	0.01	not set	128	–	0
phosmet	whole	0.01	not set	128	–	0
piperonyl butoxide	whole	0.01	8	128	0	0
pirimicarb	whole	0.01	0.05	128	0	0
pirimiphos-methyl	whole	0.01	not set	128	–	0
profenofos	whole	0.01	not set	128	–	0
propargite	whole	0.01	not set	128	–	0
prothiofos	whole	0.01	not set	128	–	0
pymetrozine	whole	0.01	not set	128	–	0
pyrethrins	whole	0.05	1	128	0	0
pyridaben	whole	0.02	0.05	128	0	0
pyriproxyfen	whole	0.01	0.01	128	0	0
spinetoram	whole	0.01	0.02	128	0	0
spinosad	whole	0.01	0.01	128	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
spirotetramat	whole	0.01	not set	128	–	0
sulfoxaflor	whole	0.01	0.01	128	0	0
tau-fluvalinate	whole	0.01	not set	128	0	0
tebufenozide	whole	0.01	0.05	128	0	0
tebufenpyrad	whole	0.01	not set	128	–	0
terbufos	whole	0.01	not set	128	–	0
tetradifon	whole	0.01	not set	128	–	0
thiacloprid	whole	0.01	not set	128	–	0
thiamethoxam	whole	0.01	not set	128	–	0
thiodicarb	whole	0.01	not set	128	–	0
triazofos	whole	0.01	not set	128	–	0
trichlorfon	whole	0.01	0.1	128	0	0
triflumuron	whole	0.01	not set	128	–	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	128	–	0
chlordane	whole	0.01	not set	128	–	0
DDT	whole	0.01	not set	128	–	0
endosulfan	whole	0.01	not set	128	–	0
endrin	whole	0.01	not set	128	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	128	–	0
HCH (BHC)	whole	0.01	not set	128	–	0
heptachlor	whole	0.01	not set	128	–	0
lindane (gamma-HCH)	whole	0.01	not set	128	–	0
mirex	whole	0.01	not set	128	–	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	128	–	0