Australian Government
Department of Agriculture and Water Resources

Macadamia residue testing annual datasets 2017–18

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.

Disclaimer

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	123	–	0
azoxystrobin	whole	0.01	2	123	0	0
benalaxyl	whole	0.01	not set	123	–	0
bitertanol	whole	0.01	not set	123	–	0
boscalid	whole	0.01	0.5	123	0	0
bupirimate	whole	0.01	not set	123	–	0
captafol	whole	0.05	not set	123	–	0
captan	whole	0.05	3	123	0	0
carbendazim	whole	0.01	0.1	123	0	0
chlorothalonil	whole	0.01	not set	123	–	0
cyproconazole	whole	0.01	not set	123	–	0
cyprodinil	whole	0.01	not set	123	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
difenoconazole	whole	0.01	0.01	123	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	123	–	0
dithianon	whole	0.01	not set	123	–	0
dithiocarbamates	whole	0.2	not set	123	–	0
dodine	whole	0.01	not set	123	–	0
epoxiconazole	whole	0.01	not set	123	–	0
etridiazole	whole	0.01	not set	123	–	0
fenarimol	whole	0.01	not set	123	–	0
fenhexamid	whole	0.01	not set	123	–	0
fluazinam	whole	0.01	not set	123	–	0
fludioxonil	whole	0.01	not set	123	–	0
fluquinconazole	whole	0.01	not set	123	–	0
flusilazole	whole	0.01	not set	123	–	0
flutriafol	whole	0.01	0.5	123	0	0
hexaconazole	whole	0.01	not set	123	–	0
imazalil	whole	0.01	not set	123	–	0
iprodione	whole	0.02	0.01	123	0	0
kresoxim-methyl	whole	0.01	not set	123	–	0
metalaxyl	whole	0.01	1	123	0	0
metrafenone	whole	0.01	not set	123	–	0
myclobutanil	whole	0.01	not set	123	–	0
oxadixyl	whole	0.01	not set	123	–	0
paclobutrazol	whole	0.01	not set	123	–	0
penconazole	whole	0.01	not set	123	–	0
penthiopyrad	whole	0.01	0.1	123	0	0
prochloraz	whole	0.01	not set	123	–	0
procymidone	whole	0.01	not set	123	–	0
propiconazole	whole	0.01	0.2	123	0	0
prothioconazole	whole	0.05	not set	123	–	0
pyraclostrobin	whole	0.01	0.01	123	0	0
pyrimethanil	whole	0.01	not set	123	–	0
tebuconazole	whole	0.01	not set	123	–	0
thiabendazole-P	whole	0.01	not set	123	–	0
tolclofos methyl	whole	0.01	not set	123	–	0
triadimefon	whole	0.01	not set	123	–	0
triadimenol	whole	0.01	not set	123	–	0
trifloxystrobin	whole	0.01	0.05	123	0	0
triticonazole	whole	0.01	not set	123	–	0
vinclozolin	whole	0.01	not set	123	–	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	123	–	0
2,4-D	whole	0.01	not set	123	–	0
amitrole	whole	0.01	not set	10	–	0
atrazine	whole	0.01	not set	123	–	0
bromacil	whole	0.01	not set	123	–	0
bromoxynil	whole	0.01	not set	123	–	0
carfentrazone-ethyl	whole	0.01	0.05	123	0	0
chlorpropham	whole	0.05	not set	123	–	0
chlorsulfuron	whole	0.01	not set	123	–	0
chlorthal-dimethyl	whole	0.01	not set	123	–	0
clethodim (parent only)	whole	0.01	not set	123	–	0
clodinafop-propargyl	whole	0.01	not set	123	–	0
clopyralid	whole	0.05	not set	123	–	0
cyanazine	whole	0.01	not set	123	–	0
dicamba	whole	0.01	not set	123	–	0
dichlobenil	whole	0.01	not set	123	–	0
dichlorprop-P	whole	0.01	not set	123	–	0
diclofop-methyl	whole	0.01	not set	10	–	0
diflufenican	whole	0.01	not set	123	–	0
diquat	whole	0.01	0.05	10	0	0
diuron	whole	0.01	not set	123	–	0
ethofumesate	whole	0.01	not set	123	–	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
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
iodosulfuron-methyl	whole	0.01	not set	123	–	0
ioxynil	whole	0.01	not set	123	–	0
isoxaben	whole	0.01	0.01	123	0	0
linuron	whole	0.05	not set	123	–	0
MCPA	whole	0.01	not set	123	–	0
methabenzthiazuron	whole	0.01	not set	123	–	0
metolachlor	whole	0.01	not set	123	–	0
metosulam	whole	0.01	not set	123	–	0
metribuzin	whole	0.01	not set	123	–	0
metsulfuron-methyl	whole	0.01	not set	123	–	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	123	–	0
norflurazon	whole	0.01	0.2	123	0	0
oryzalin	whole	0.01	0.1	123	0	0
oxyfluorfen	whole	0.01	0.05	123	0	0
paraquat	whole	0.01	0.05	10	0	0
pendimethalin	whole	0.01	0.05	123	0	0
picloram	whole	0.01	not set	123	–	0
propachlor	whole	0.01	not set	123	–	0
propyzamide	whole	0.01	not set	123	–	0
quizalofop-ethyl	whole	0.01	not set	133	–	0
quizalofop-P-tefuryl	whole	0.01	not set	133	–	0
saflufenacil	whole	0.01	0.03	123	0	0
sethoxydim	whole	0.01	not set	123	–	0
simazine	whole	0.01	0.1	123	0	0
tralkoxydim	whole	0.01	not set	123	–	0
triasulfuron	whole	0.01	not set	123	–	0
triclopyr	whole	0.01	not set	123	–	0
trifluralin	whole	0.01	not set	123	–	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	123	0	0
acephate	whole	0.05	0.1	123	0	0
acetamiprid-P	whole	0.01	not set	123	–	0
aldicarb	whole	0.01	not set	123	–	0
amitraz	whole	0.01	not set	123	–	0
azamethiphos	whole	0.01	not set	123	–	0
azinphos-methyl	whole	0.01	0.01	123	0	0
bifenazate	whole	0.01	not set	123	–	0
bifenthrin	whole	0.01	not set	123	–	0
bioresmethrin	whole	0.01	not set	123	–	0
buprofezin	whole	0.01	not set	123	–	0
cadusafos	whole	0.01	not set	123	–	0
carbaryl	whole	0.01	2	123	0	0
carbofuran	whole	0.01	not set	123	–	0
chlorantraniliprole	whole	0.01	0.01	123	0	0
chlorfenapyr	whole	0.01	not set	123	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	123	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorpyrifos	whole	0.01	0.05	123	0	0
chlorpyrifos-methyl	whole	0.01	not set	123	–	0
clofentezine	whole	0.01	not set	123	–	0
clothianidin	whole	0.01	not set	123	–	0
cyfluthrin (sum of isomers)	whole	0.01	0.05	123	0	0
cyhalothrin (sum of isomers)	whole	0.01	not set	123	–	0
cypermethrin (sum of isomers)	whole	0.01	0.01	123	0	0
deltamethrin	whole	0.01	not set	123	–	0
diazinon	whole	0.01	0.1	123	0	0
dichlorvos	whole	0.01	2	123	0	0
dicofol	whole	0.01	not set	123	–	0
diflubenzuron	whole	0.01	not set	123	–	0
dimethoate	whole	0.01	not set	123	–	0
disulfoton	whole	0.01	not set	123	–	0
emamectin	whole	0.01	not set	123	–	0
esfenvalerate	whole	0.01	not set	123	–	0
ethion	whole	0.01	not set	123	–	0
ethoprophos	whole	0.005	not set	123	–	0
etoxazole	whole	0.01	not set	123	–	0
fenamiphos	whole	0.01	not set	123	–	0
fenbutatin oxide	whole	0.01	not set	123	–	0
fenitrothion	whole	0.01	not set	123	–	0
fenoxycarb	whole	0.01	not set	123	–	0
fenpyroximate	whole	0.01	not set	123	–	0
fenthion	whole	0.01	not set	123	–	0
fenvalerate (sum of isomers)	whole	0.01	not set	123	–	0
fipronil	whole	0.01	not set	123	–	0
flonicamid	whole	0.01	not set	123	–	0
hexythiazox	whole	0.01	not set	123	–	0
imidacloprid	whole	0.01	not set	123	–	0
indoxacarb	whole	0.01	not set	123	–	0
malathion (maldison)	whole	0.01	8	123	0	0
metaldehyde	whole	0.05	not set	123	–	0
methacrifos	whole	0.01	not set	123	–	0
methamidophos	whole	0.01	not set	123	–	0
methidathion	whole	0.01	0.01	123	0	0
methiocarb	whole	0.01	not set	123	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
methomyl	whole	0.01	1	123	0	0
methoprene	whole	0.01	not set	123	–	0
methoxychlor	whole	0.01	not set	123	–	0
methoxyfenozide	whole	0.01	0.05	123	0	0
mevinphos	whole	0.01	not set	123	–	0
monocrotophos	whole	0.01	not set	123	–	0
omethoate	whole	0.01	not set	123	–	0
parathion	whole	0.01	not set	123	–	0
parathion-methyl	whole	0.01	not set	123	–	0
permethrin (sum of isomers)	whole	0.01	not set	123	–	0
phenothrin (sum of isomers)	whole	0.01	not set	123	–	0
phorate	whole	0.01	not set	123	–	0
phosmet	whole	0.01	not set	123	–	0
piperonyl butoxide	whole	0.01	8	123	0	0
pirimicarb	whole	0.01	0.05	123	0	0
pirimiphos-methyl	whole	0.01	not set	123	–	0
profenofos	whole	0.01	not set	123	–	0
propargite	whole	0.01	not set	123	–	0
prothiofos	whole	0.01	not set	123	–	0
pymetrozine	whole	0.01	not set	123	–	0
pyrethrins	whole	0.05	1	123	0	0
pyridaben	whole	0.02	0.05	123	0	0
pyriproxyfen	whole	0.01	not set	123	–	0
spinetoram	whole	0.01	0.02	123	0	0
spinosad	whole	0.01	0.01	123	0	0
spirotetramat	whole	0.01	not set	123	–	0
sulfoxaflor	whole	0.01	0.01	123	0	0
tau-fluvalinate	whole	0.01	not set	123	–	0
tebufenozide	whole	0.01	0.05	123	0	0
tebufenpyrad	whole	0.01	not set	123	–	0
terbufos	whole	0.01	not set	123	–	0
tetradifon	whole	0.01	not set	123	–	0
thiacloprid	whole	0.01	not set	123	–	0
thiamethoxam	whole	0.01	not set	123	–	0
thiodicarb	whole	0.01	not set	123	–	0
triazofos	whole	0.01	not set	123	–	0
trichlorfon	whole	0.01	0.1	123	0	0
triflumuron	whole	0.01	not set	123	–	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	123	–	0
chlordane	whole	0.01	not set	123	–	0
DDT	whole	0.01	not set	123	–	0
endosulfan	whole	0.01	not set	123	–	0
endrin	whole	0.01	not set	123	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	123	–	0
HCH (BHC)	whole	0.01	not set	123	–	0
heptachlor	whole	0.01	not set	123	–	0
lindane (gamma-HCH)	whole	0.01	not set	123	–	0
mirex	whole	0.01	not set	123	–	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	123	–	0