

Method Information

Amphenicols in Tissue by LC-MS/MS

	Tissue
AQ Analysis Code	VM-AAMP01
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	Sample is extracted and purified using liquid-liquid extraction. Measurement is performed using liquid chromatography tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ¹	LOR
chloramphenicol ²	0.00027
florfenicol	0.0043
florfenicol amine	0.0038
thiamphenicol	0.0029

¹ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

² Reported as sum of chloramphenicol and chloramphenicol glucuronide.

Determination of Anthelmintics in Tissue by LC-MS/MS

		Tissue – Liver, Poultry Muscle
AQ Analysis Code		VM-EAMC01
Sample Size		100 g
Turnaround Time (calendar days)		21
Accreditation Status		IANZ Accredited (liver only)
Method		Samples are homogenised in acetonitrile before purifying by dispersive solid phase extraction. Measurement is performed using liquid chromatography tandem mass spectrometry.
Units		mg/kg as received
Reporting Limits ³		LOR
Macrocyclic Lactones	abamectin b1a	0.0050
	doramectin	0.0050
	emamectin b1a	0.0050
	eprinomectin b1a	0.0050
	moxidectin	0.0050
	ivermectin b1a	0.0050
	spinetoram j (xde-175j)	0.0020
	spinetoram l (xde-175l)	0.0020
	spinosyn a	0.0020
	spinosyn d	0.0020
Miscellaneous Anthelmintics	clorsulon	0.080
	closantel	0.050
	monepantel sulfone	0.0050
	nitroxylnil	0.012
	rafoxanide	0.010

Benzimidazoles	albendazole	0.0020
	albendazole sulfoxide (ricobendazole)	0.0010
	albendazole sulfone	0.0010
	albendazole-2-amino-sulfone	0.0010
	fenbendazole	0.0010
	fenbendazole sulfoxide (oxfendazole)	0.0010
	fenbendazole sulfone	0.0010
	flubendazole	0.0010
	flubendazole amine	0.0020
	levamisole	0.0010
	levamisole 4-hydroxy	0.0050
	mebendazole	0.0050
	mebendazole amine	0.0050
	mebendazole 5-hydroxy	0.0050
	morantel	0.0010
	oxibendazole	0.0010
	parbendazole	0.0010
	praziquantel	0.010
	thiabendazole	0.0010
	thiabendazole 5-hydroxy	0.0050
trimethoprim	0.0050	
triclabendazole	0.0050	
triclabendazole sulfoxide	0.025	
triclabendazole sulfone	0.010	
triclabendazole hydroxy	0.0020	
keto-triclabendazole	0.10	

³ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

Polyether Coccidiostats in Foods by LC-MS/MS - Egg

	Egg
AQ Analysis Code	VM-ACOC02
Sample Size	10 Pieces
Turnaround Time (calendar days)	21 Days
Matrix and Accreditation Status	IANZ Accredited
Reporting Limits	LOR ¹
Units	mg/kg
Lasalocid	0.0054
Maduramicin	0.012
Monensin	0.0087
Narasin	0.010
Salinomycin	0.013
Semduramicin	0.014

Beta Agonists in Tissue by LC-MS/MS

	Tissue
AQ Analysis Code	VM-HBAG01
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	The sample is extracted with buffered aqueous methanol, hydrolysed and then further purified using solid phase extraction (SPE). Measurement is performed using liquid chromatography tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ⁴	LOR
cimaterol	0.00024
clenbuterol	0.00015
mabuterol	0.00015
salbutamol	0.00090
ractopamine	0.00015
zilpaterol	0.00030

⁴ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

Coccidiostats in Tissue by LC-MS/MS

	Tissue/Liver
AQ Analysis Code	VM-ACOC04
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	The sample is extracted and purified using solid phase extraction. Measurement is performed using liquid chromatography- tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ⁵	LOR
lasalocid	0.010
maduramicin	0.010
monensin	0.010
narasin	0.010
salinomycin	0.010
semduramicin	0.010
amprolium	0.010
halofuginone	0.010
nicarbazin	0.010
toltrazuril	0.010
toltrazuril sulfone	0.010
toltrazuril sulfoxide	0.010

⁵ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

Protein Bound Nitrofurans in Tissue by LC-MS/MS

	Tissue/Liver
AQ Analysis Code	VM-ANFM01
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	Sample is solvent washed before hydrolysis and derivitisation. Sample is then purified by liquid-liquid extraction. Measurement is performed using liquid chromatography tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ⁶	LOR
1-aminohydantoin (AHD) (nitrofurantoin)	0.00046
semicarbazide (SEM) (nitrofurazone)	0.00037
3-amino-2-oxazolidone (AOZ) (Furazolidone)	0.00012
5-(morpholino-methyl)-3-amino-2-oxazolidone (AMOZ) (furaltadone)	0.00010

⁶ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

Nitrofurans Metabolites in Food by LC-MS/MS

	Food
AQ Analysis Code	VM-ANFM03
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	The samples are hydrolysed and derivatised before purification by liquid-liquid phase extraction. Measurement is performed using liquid chromatography tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ²	LOR
1-aminohydantoin (AHD) (nitrofurantoin)	0.00040
semicarbazide (SEM) (nitrofurazone)	0.00041
3-amino-2-oxazolidone (AOZ) (furazolidone)	0.000072
5-(morpholino-methyl)-3-amino-1,3-oxazolidin-2-one (AMOZ) (furaltidone)	0.000077

farm

Nitroimidazoles in Tissue by LC-MS/MS (ADZ03)

	Tissue/Muscle
AQ Analysis Code	VM-ANDZ01
Sample Size	100 g (Lean Muscle)
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	The sample is extracted using liquid-liquid extraction and purified using solid phase extraction. Measurement is performed using liquid chromatography-tandem mass spectrometry.
Units	mg/kg as received
Reporting Limits ⁷	LOR
dimetridazole	0.000097
HMMNI	0.000035
metronidazole	0.000034
hydroxymetronidazole	0.000046
ronidazole	0.000055

⁷ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

NSAIDs in Tissue by LC-MS/MS

	Tissue
AQ Analysis Code	VM-XNSD03
Sample Size	100 g
Turnaround Time (calendar days)	21
Accreditation Status	IANZ Accredited
Method	Sample is hydrolysed, extracted using liquid-liquid extraction and purified using solid phase extraction (SPE). Measurement is performed using liquid chromatography tandem mass spectrometry
Units	mg/kg
Reporting Limits ¹	LOR
flunixin	0.0053
5-hydroxyflunixin	0.0092
ketoprofen	0.0030
meloxicam	0.022
oxyphenbutazone	0.018
phenylbutazone	0.014
tolfenamic acid	0.0037

Triphenylmethane Dyes in Tissue by LC-MS/MS

	Shrimp
AQ Analysis Code	VM-ATPM01
Sample Size	200g
Turnaround Time (calendar says)	21
Matrix and Accreditation Status	Shrimp Tissue – IANZ Accredited
Reporting Limits	LOR ¹
Units	mg/kg
Crystal violet	0.0011
Leucocrystal violet	0.0013
Leucomalachite green	0.00070
Malachite green	0.00080

Steroids in Urine by LC-MS/MS

Matrix and Accreditation Status	Animal Urine - IANZ 131 1135 Accredited
AQ Analysis Code	VM-HGPR01
Analysis Variation	01-DEFAULT
Reporting Limits	LOR ¹
Units	mg/L
17 α -Boldenone	0.00026
17 α -Estradiol	0.0027
17 α -Ethinylestradiol	0.0016
17 α -Methyltestosterone	0.00024
17 α -Nortestosterone	0.00052
17 α -Testosterone	0.00033
17 α -Trenbolone	0.0020
α -Zearalanol	0.00029
α -Zearalenol	0.00060
17 β -Boldenone	0.00037
17 β -Estradiol	0.0030
Betamethasone	0.00071
16 β -Hydroxystanozolol	0.00044
17 β -Nortestosterone	0.00045
17 β -Testosterone	0.00033
17 β -Trenbolone	0.0020
β -Zearalanol	0.00046
β -Zearalenol	0.00060

Matrix and Accreditation Status	Animal Urine - IANZ 131 1135 Accredited
AQ Analysis Code	VM-HGPR01
4-Chloroandrost-4-ene-3,17-dione (CLAD)	0.00036
Dexamethasone	0.00071
Dienestrol	0.00016
Diethylstilbestrol	0.00018
Flumethasone	0.0020
Hexestrol	0.00016
Methylboldenone	0.00036
Norethandrolone	0.00039
Stanozolol	0.00076
Zearalanone	0.00036

Multiresidue Pesticide Screen in Muscle

	Muscle
AQ Analysis Code	PS-MRGV02
Sample Size	100g
Accreditation Status	Not Accredited
Method	In-house by GC-MS
Units	mg/kg
Reporting Limits ¹	Estimated LOR
acetochlor	0.01
alachlor	0.01
aldrin	0.01
alidochlor	0.02
ametryn	0.01
anilofos	0.01
atrazine	0.01
azaconazole	0.01
azinthos-methyl	0.01
azoxystrobin	0.01
benalaxyl	0.01
bendiocarb	0.01
benfluralin	0.02
benodanil	0.01
benoxacor	0.01
BHC (alpha)	0.01
BHC (beta)	0.01
BHC (delta)	0.01
bifenox	0.01
bifenthrin	0.01
bioresmethrin	0.01
bitertanol	0.01
bromacil	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
bromobutide	0.01
bromophos	0.01
bromophos-ethyl	0.01
bromopropylate	0.01
bupirimate	0.01
buprofezin	0.01
butachlor	0.01
butafenacil	0.01
butamifos	0.01
cadusafos	0.01
carbaryl	0.01
carbofuran	0.01
carboxin	0.01
carfentrazone-ethyl	0.01
chlordane-cis	0.01
chlordane-trans	0.01
chlorfenapyr	0.02
chlorfenvinphos	0.01
chlorobenzilate	0.01
chlorothalonil	0.01
chlorpropham	0.01
chlorpyrifos	0.01
chlorpyrifos-methyl	0.01
chlorthal-dimethyl	0.01
chlozolinate	0.01
clodinafop-propargyl	0.01
clomazone	0.01
cloquintocet-mexyl	0.01
coumafos	0.01
cyanazine	0.01
cyanophos	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
cyflufenamid	0.01
cyfluthrin	0.01
cyhalofop-butyl	0.01
cyhalothrin	0.01
cypermethrin	0.01
cyproconazole	0.01
cyprodinil	0.01
DDD (o,p')	0.01
DDD (p,p')	0.01
DDE (o,p')	0.01
DDE (p,p')	0.01
DDT (o,p')	0.01
DDT (p,p')	0.01
deltamethrin	0.01
demeton-s-methyl	0.01
diazinon	0.01
dichlobenil	0.02
dichlofenthion	0.01
dichlofluanid	0.01
dichloran	0.01
dicofol	0.01
dichlorvos	0.02
diclobutrazol	0.01
diclofop-methyl	0.01
dicrotophos	0.01
dieldrin	0.01
diethofencarb	0.01
difenoconazole	0.01
diflufenican	0.01
dimepiperate	0.01
dimethenamid	0.01

¹ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

	Muscle
AQ Analysis Code	PS-MRGV02
dimethoate	0.01
dimethomorph	0.01
dimethylvinphos	0.01
dioxabenzofos	0.01
diphenamid	0.01
diphenylamine	0.01
disulfoton	0.01
dithiopyr	0.02
edifenphos	0.01
endosulfan sulphate	0.01
endosulfan (alpha)	0.01
endosulfan (beta)	0.02
endrin	0.01
EPN	0.02
epoxiconazole	0.01
EPTC	0.02
esfenvalerate	0.01
esprocarb	0.01
ethalfuralin	0.01
ethiofencarb	0.01
ethion	0.01
ethoprophos	0.01
ethoxyquin	0.01
etoxazole	0.01
etridiazole	0.01
etrimfos	0.01
famphur	0.01
fenamiphos	0.01
fenarimol	0.01
fenchlorphos	0.01
fenitrothion	0.01
fenobucarb	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
fenoxanil	0.01
fenoxaprop-ethyl	0.01
fenoxycarb	0.01
fenpiclonil	0.01
fenpropathrin	0.01
fenpropimorph	0.01
fensulfothion	0.01
fenthion	0.01
fenvalerate	0.01
fipronil	0.02
flamprop-methyl	0.01
fluacrypyrim	0.01
fluazifop-p-butyl	0.02
fluazinam	0.02
flucythrinate	0.01
fludioxonil	0.01
flumiclorac pentyl	0.01
flumioxazin	0.01
fluquinconazole	0.01
flusilazole	0.01
flutolanil	0.01
flutriafol	0.01
fluvalinate	0.01
fonofos	0.01
fosthiazate	0.01
furalaxyl	0.01
furathiocarb	0.02
haloxyfop-etotyl	0.02
haloxyfop-methyl	0.01
heptachlor	0.01
heptachlor-epoxide	0.01
heptenophos	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
hexachlorobenzene	0.01
hexaconazole	0.01
hexazinone	0.01
indoxacarb	0.01
iodofenphos	0.01
iprobenfos	0.01
iprodone	0.01
iprovalicarb	0.01
isazophos	0.01
isofenphos	0.01
isoprocarb	0.01
isoprothiolane	0.01
kresoxim-methyl	0.01
lactofen	0.01
leptophos	0.01
lindane	0.01
linuron	0.01
malathion	0.01
mepronil	0.01
metalaxyl	0.01
methacrifos	0.01
methidathion	0.01
methiocarb	0.01
metolachlor	0.01
metribuzin	0.02
mevinphos	0.01
molate	0.01
myclobutanil	0.01
napropamide	0.01
nitrofen	0.01
nitrothal-isopropyl	0.01
norflurazon	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
oxadiazon	0.01
oxadixyl	0.01
oxyfluorfen	0.01
paclobutrazol	0.01
parathion	0.01
parathion-methyl	0.01
penconazole	0.01
pendimethalin	0.02
permethrin	0.01
phenthoate	0.01
phorate	0.01
phorate sulphone	0.01
phorate sulphoxide	0.01
phosalone	0.01
phosmet	0.01
phosphamidon	0.01
picolinafen	0.01
piperonyl butoxide	0.01
piperophos	0.01
pirimicarb	0.01
pirimiphos-methyl	0.01
pretilachlor	0.01
prochloraz	0.01
procymidone	0.01
profenofos	0.01
promecarb	0.01
prometryn	0.01
propachlor	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
propargite	0.02
propazine	0.01
propetamphos	0.01
propham	0.01
propiconazole	0.01
propoxur	0.01
propyzamide	0.01
prothiofos	0.01
pyraclostrobin	0.01
pyraflufen ethyl	0.01
pyrazophos	0.01
pyributicarb	0.01
pyridaben	0.01
pyridafenthion	0.01
pyrimethanil	0.01
pyrimidifen	0.01
pyriminobac-methyl(E)	0.01
pyriminobac-methyl(Z)	0.01
pyriproxyfen	0.01
quinalphos	0.01
quinoclamine	0.01
quinoxifen	0.01
quintozene	0.01
quizalofop-ethyl	0.01
simazine	0.01
simeconazole	0.01
simetryn	0.01
sulfentrazone	0.01

	Muscle
AQ Analysis Code	PS-MRGV02
tebuconazole	0.01
tebufenpyrad	0.01
tecnazene	0.01
tefluthrin	0.02
terbacil	0.01
terbufos	0.01
terbuthylazine	0.01
terbutryn	0.01
tetraclorvinphos	0.01
tetraconazole	0.01
tetradifon	0.01
thenylchlor	0.01
thiobencarb	0.01
thiometon	0.01
tolclofos-methyl	0.01
tolyfluanid	0.01
tralkoxydim	0.02
triadimefon	0.01
triadimenol	0.01
tri-allate	0.01
triazophos	0.01
tribuphos	0.01
trifloxystrobin	0.01
trifluralin	0.02
uniconazole P	0.01
vinclozolin	0.01
XMC	0.01

Pesticide Multiresidue in Fat by GC-MS/MS

	Fat
AQ Analysis Code	PS-MRGL03
Sample Size	500g or as per Codex
Accreditation Status	IANZ Accredited
Method:	In-house by GC-MS/MS
Units	mg/kg
Reporting Limits ⁹	LOR
Alachlor	0.01
Aldrin	0.01
Allidochlor	0.01
Anilofos	0.03
Azaconazole	0.01
Azoxystrobin	0.01
Benalaxyl	0.01
Benfluralin	0.03
Benoxacor	0.01
Bifenox	0.01
Bifenthrin	0.01
Bioresmethrin	0.03
Bitertanol	0.01
Bromacil	0.01
Bromobutide	0.01
Bromophos	0.01
Bromophos-ethyl	0.01
Bromopropylate	0.01
Bupirimate	0.01
Buprofezin	0.01
Butachlor	0.01
Cadusafos	0.01
Carbofuran	0.01
Chlorfenapyr	0.01
Chlorfenvinphos	0.01
Chlorobenzilate	0.01
Chlorpyrifos	0.01

⁹ Specific compounds reportable and LORs for any screen can be sample matrix dependant.

	Fat
AQ Analysis Code	PS-MRGL03
Chlorpyrifos-methyl	0.01
Chlorthal-dimethyl	0.01
chlozolinate	0.03
cis-Chlordane	0.01
Clomazone	0.01
Cloquintocet-mexyl	0.01
Cyanophos	0.01
Cyfluthrin	0.01
Cyhalofop-butyl	0.01
Cyhalothrin	0.03
Cypermethrin	0.03
Cyprodinil	0.01
Deltamethrin	0.03
Diazinon	0.01
Dichlobenil	0.01
Dichlofenthion	0.01
Dichlorvos	0.03
Diclobutrazol	0.01
Diclofop-methyl	0.01
Dicloran	0.01
Dicofol	0.01
Dieldrin	0.01
Difenoconazole	0.01
Diflufenican	0.01
Dimepiperate	0.01
Dimethenamid	0.01
Dioxabenzofos	0.01
Diphenamid	0.01
Diphenylamine	0.01
Dithiopyr	0.01
Endosulfan sulfate	0.01
Endrin	0.01
Endrin ketone	0.03
EPN	0.03
EPTC	0.01

	Fat
AQ Analysis Code	PS-MRGL03
Esprocarb	0.01
Ethalfuralin	0.01
Ethion	0.01
Ethofumesate	0.01
Ethoprophos	0.01
Etoxazole	0.01
Etridiazole	0.01
Etrimfos	0.01
Fenarimol	0.01
Fenchlorphos	0.01
Fenitrothion	0.03
Fenoxanil	0.01
Fenoxaprop-ethyl	0.01
Fenoxycarb	0.01
Fenpiclonil	0.01
Fenpropathrin	0.01
Fenthion	0.01
Fenvalerate	0.03
Flamprop-methyl	0.01
Fluacrypyrim	0.01
Fluazifop-P-butyl	0.01
Flucythrinate	0.03
Fludioxonil	0.03
Flumiclorac-pentyl	0.01
Flumioxazin	0.03
Fluquinconazole	0.01
Flusilazole	0.01
Flutolanil	0.01
Flutriafol	0.01
Fluvalinate	0.03
Fonofos	0.01
Fosthiazate	0.01
Haloxypop-etotyl	0.03
Haloxypop-methyl	0.01
HCB	0.01

	Fat
AQ Analysis Code	PS-MRGL03
Heptachlor	0.01
Heptachlor endo-epoxide	0.01
Heptachlor exo-epoxide	0.01
Heptenophos	0.01
Hexaconazole	0.01
Hexazinone	0.01
Indoxacarb	0.03
Iprobenfos	0.01
Iprodione	0.01
Isazofos	0.01
Isofenphos	0.01
Isoprocarb	0.01
Isoprothiolane	0.01
Kresoxim-methyl	0.01
Leptophos	0.03
Lindane (γ -HCH)	0.01
Malathion	0.03
Methacrifos	0.01
Metolachlor	0.01
Metribuzin	0.01
Mevinphos	0.01
Mirex	0.01
Molinate	0.01
Myclobutanil	0.01
Napropamide	0.01
Nitrofen	0.03
Nitrothal-isopropyl	0.03
Norflurazon	0.01
o,p'-DDD	0.01
o,p'-DDE	0.01
o,p'-DDT	0.01
Octhilinone	0.01
Oxadiazon	0.01

	Fat
AQ Analysis Code	PS-MRGL03
Oxadixyl	0.01
Oxychlorthane	0.01
Oxyfluorfen	0.03
p,p'-DDD	0.01
p,p'-DDE	0.01
p,p'-DDT	0.03
Parathion	0.03
Parathion-methyl	0.01
PeCB	0.01
Penconazole	0.01
Permethrin	0.03
Phorate	0.03
Phosmet	0.03
Picolinafen	0.01
Piperonyl butoxide	0.01
Pirimicarb	0.01
Pirimiphos-methyl	0.01
Pretilachlor	0.01
Prochloraz	0.01
Procymidone	0.01
Profenofos	0.01
Promecarb	0.01
Propachlor	0.01
Propargite	0.01
Propazine	0.01
Propetamphos	0.01
Propham	0.01
Propoxur	0.01
Propyzamide	0.01
Prothiofos	0.01
Pyraclostrobin	0.01
Pyraflufen-ethyl	0.01
Pyributicarb	0.01

	Fat
AQ Analysis Code	PS-MRGL03
Pyridaben	0.01
Pyrimethanil	0.01
Pyrimidifen	0.01
Pyriproxyfen	0.01
Quinalphos	0.01
Quinoxifen	0.01
Quintozene	0.01
Simeconazole	0.01
Tebuconazole	0.01
Tebufenpyrad	0.01
Tecnazene	0.01
Tefluthrin	0.01
Terbacil	0.01
Terbuthylazine	0.01
Tetradifon	0.01
Thiobencarb	0.01
Tolclofos-methyl	0.01
trans-Chlordane	0.01
Triadimefon	0.01
Tri-allate	0.01
Tribufos	0.01
Trifloxystrobin	0.01
Trifluralin	0.01
Vinclozolin	0.01
XMC	0.01
α -Endosulfan	0.01
α -HCH	0.01
β -Endosulfan	0.01
β -HCH	0.01
δ -HCH	0.01