

FERA's Infant Foods Multi Residue Method (MRM) Pesticide Suite

Method Details:	LC-MS & GC-MS MRM with 422 actives inc the 'Red List' compounds with lower LOD's	Sample Size:	Ideally 500g/500ml but minimum sample size is 50g/500ml
Matrices covered:	The method is suitable for infant formula, baby foods (cereals, ready meals etc)	Turnaround Time:	Standard turnaround time is 10 working days
Accreditation:	This testing would be UKAS accredited	Price (ex VAT):	POA (batch size / turnaround time dependent)

Pesticide	mg/kg	Pesticide	mg/kg	Pesticide	mg/kg	Pesticide	mg/kg	Pesticide	mg/kg	Pesticide	mg/kg
aldrin	0.003	atrazine	0.01	chlortoluron	0.01	diuron	0.01	flucythrinate	0.01	isoxaflutole	0.01
cadusafos	0.006	azinphos-ethyl	0.01	chlozolinate	0.01	DMF	0.01	fludioxonil	0.01	kresoxim-methyl	0.01
demeton-S-methyl	0.006	azinphos-methyl	0.01	chromafenozide	0.01	DMPF	0.01	flufenacet	0.01	lenacil	0.01
demeton-S-methyl sulphone	0.006	azoxystrobin	0.01	clethodim	0.01	DMSA	0.01	flufenoxuron	0.01	linuron	0.01
demeton-S-methyl sulphoxide	0.006	BAC 10	0.01	clofentezine	0.01	DMST	0.01	fluometuron	0.01	lufenuron	0.01
dieldrin	0.003	BAC 12	0.01	clomazone	0.01	dodine	0.01	fluopicolide	0.01	malaoxon	0.01
dimethoate	0.003	BAC 14	0.01	clothianidin	0.01	emamectin benzoate	0.01	fluopyram	0.01	malathion	0.01
disulfoton	0.003	BAC 16	0.01	coumaphos	0.01	endosulfan (I)	0.01	fluoxastrobin	0.01	mandipropamid	0.01
disulfoton sulphone	0.003	benalaxyl	0.01	cyanazine	0.01	endosulfan (II)	0.01	fluquinconazole	0.01	MCPA	0.01
disulfoton sulphoxide	0.003	bendiocarb	0.01	cyazofamid	0.01	endosulfan-sulphate	0.01	flurochloridone	0.01	MCPB	0.01
endrin	0.003	benthiavalicarb-isopropyl	0.01	cycloate	0.01	EPN	0.01	fluroxypyr	0.01	mecarbam	0.01
ethoprophos	0.008	bifenox	0.01	cycloxydim	0.01	epoxiconazole	0.01	flusilazole	0.01	mepanipyrim	0.01
fensulfothion	0.003	bifenthrin	0.01	cyflufenamid	0.01	EPTC	0.01	flutolanil	0.01	mephosfolan	0.01
fensulfothion-oxon	0.003	biphenyl	0.01	cyfluthrin	0.01	ethiofencarb	0.01	flutriafol	0.01	mepronil	0.01
fensulfothion-oxon-sulfone	0.003	bispyribac-sodium	0.01	cyhalofop-butyl	0.01	ethiofencarb sulphone	0.01	fluvalinate	0.01	mesosulfuron-methyl	0.01
fensulfothion-sulfone	0.003	bitertanol	0.01	cyhalothrin-lambda	0.01	ethiofencarb sulphoxide	0.01	fluxapyroxad	0.01	metaflumizone	0.01
fentin acetate	0.003	bixafen	0.01	cymoxanil	0.01	ethion	0.01	folpet BD (phthalamide)	0.01	metalaxyl	0.01
fipronil	0.002	boscalid	0.01	cypermethrin	0.01	ethirimol	0.01	fonofos	0.01	metamitron	0.01
fipronil de-sulfinyl	0.002	bromophos-ethyl	0.01	cyproconazole	0.01	ethofumesate	0.01	formetanate-HCl	0.01	metazachlor	0.01
fipronil-sulfone	0.002	bromopropylate	0.01	cyprodinil	0.01	etofenprox	0.01	formothion	0.01	metconazole	0.01
haloxyfop (free acid)	0.003	bromoxynil	0.01	cyromazine	0.01	etoxazole	0.01	fosthiazate	0.01	methabenzthiazuron	0.01
heptachlor	0.003	bromuconazol	0.01	DDAC	0.01	etridiazole	0.01	furalaxyl	0.01	methacrifos	0.01
heptachlor epoxide (cis)	0.003	bupirimate	0.01	DDD-pp	0.01	etrimfos	0.01	furathiocarb	0.01	methamidophos	0.01
heptachlor epoxide (trans)	0.003	buprofezin	0.01	DDE-pp	0.01	famoxadone	0.01	furmecyclox	0.01	methidathion	0.01
hexachlorobenzene	0.003	butachlor	0.01	DDT-op	0.01	fenamidone	0.01	halofenozide	0.01	methiocarb	0.01
nitrofen	0.003	butocarboxim	0.01	DDT-pp	0.01	fenamiphos	0.01	halosulfuron-methyl	0.01	methiocarb sulfoxide	0.01
omethoate	0.003	butocarboxim sulphoxide	0.01	deltamethrin	0.01	fenamiphos sulphone	0.01	HCH-alpha	0.01	methiocarb sulphone	0.01
terbufos	0.003	butoxycarboxim	0.01	desmedipham	0.01	fenamiphos sulphoxide	0.01	HCH-beta	0.01	methomyl	0.01
terbufos sulfone	0.003	captan BD (THPI)	0.01	diafenthiuron	0.01	fenarimol	0.01	HCH-gamma	0.01	methoxychlor	0.01
terbufos sulphoxide	0.003	carbaryl	0.01	diazinon	0.01	fenazaquin	0.01	heptenophos	0.01	methoxyfenozide	0.01
2,4-D	0.01	carbendazim	0.01	dicamba	0.01	fenbuconazole	0.01	hexaconazole	0.01	metobromuron	0.01
2,4-DB	0.01	carbetamide	0.01	dichlobenil	0.01	fenbutatin oxide	0.01	hexazinone	0.01	metolachlor	0.01
2-phenylphenol	0.01	carbofuran	0.01	dichlofluanid	0.01	fenhexamid	0.01	hexythiazox	0.01	metolcarb	0.01
6-benzylaminopurine	0.01	carbofuran (3-hydroxy)	0.01	dichlorprop	0.01	fenitrothion	0.01	imazalil	0.01	metosulam	0.01
abamectin	0.01	carboxin	0.01	dichlorvos	0.01	fenoxycarb	0.01	imazaquin	0.01	metoxuron	0.01
acephate	0.01	chlorantraniliprole	0.01	diclobutrazol	0.01	fenpropathrin	0.01	imidacloprid	0.01	metrafenone	0.01
acetamiprid	0.01	chlorbufam	0.01	dicloran	0.01	fenpropidin	0.01	indoxacarb	0.01	metribuzin	0.01
acetochlor	0.01	chlordan (cis)	0.01	dicofol	0.01	fenpropimorph	0.01	ioxynil	0.01	metulfuron-methyl	0.01
acibenzolar-S-methyl	0.01	chlordan (trans)	0.01	dicrotophos	0.01	fenpyrazamine	0.01	iprodione	0.01	mevinphos	0.01
aclonifen	0.01	chlorfenapyr	0.01	diethofencarb	0.01	fenpyroximate	0.01	iprovalicarb	0.01	mollinate	0.01
acrinathrin	0.01	chlorfenvinphos	0.01	difenoconazole	0.01	fenthion	0.01	isazofos	0.01	monocrotophos	0.01
alachlor	0.01	chlorfuazuron	0.01	diflubenzuron	0.01	fenthion sulphone	0.01	isocarbofos	0.01	monolinuron	0.01
aldicarb	0.01	chloridazon	0.01	diflufenican	0.01	fenthion sulphoxide	0.01	isofenphos	0.01	monuron	0.01
aldicarb sulphone	0.01	chlorobenzilate	0.01	dimethenamid	0.01	fenvalerate	0.01	isofenphos-methyl	0.01	myclobutanil	0.01
aldicarb sulphoxide	0.01	chlorothalonil	0.01	dimethomorph	0.01	fonicamid	0.01	isoprocarb	0.01	napropamide	0.01
allethrin	0.01	chlorpropham	0.01	dimoxystrobin	0.01	fluazifop (free acid)	0.01	isoprothiolane	0.01	nitenpyram	0.01
ametoctradin	0.01	chlorpyrifos	0.01	diniconazole	0.01	fluazifop-P-butyl	0.01	isoproturon	0.01	nitrothal-isopropyl	0.01
amidosulfuron	0.01	chlorpyrifos-methyl	0.01	dinotefuran	0.01	fluazinam	0.01	isopyrazam	0.01	novaluron	0.01
asulam	0.01	chlorthal-dimethyl	0.01	diphenylamine	0.01	flubendiamide	0.01	isoxaben	0.01	nuarimol	0.01

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Pesticide	mg/kg	Pesticide	mg/kg	Pesticide	mg/kg
ofurace	0.01	propoxur	0.01	tetraconazole	0.01
oxadiargyl	0.01	propyzamide	0.01	tetradifon	0.01
oxadiazon	0.01	proquinazid	0.01	tetramethrin	0.01
oxadixyl	0.01	prosulfocarb	0.01	TFNA	0.01
oxamyl	0.01	prosulfuron	0.01	TFNG	0.01
oxasulfuron	0.01	prothioconazole-desthio	0.01	thiabendazole	0.01
oxychlor dane	0.01	prothiofos	0.01	thiacloprid	0.01
oxyfluorfen	0.01	pymetrozine	0.01	thiamethoxam	0.01
paclobutrazol	0.01	pyraclostrobin	0.01	thiodicarb	0.01
paraoxon-methyl	0.01	pyrazophos	0.01	thiophanate-methyl	0.01
parathion-ethyl	0.01	pyrethrins	0.01	tolclofos-methyl	0.01
parathion-methyl	0.01	pyridaben	0.01	tolfenpyrad	0.01
penconazole	0.01	pyridalyl	0.01	tolyfluanid	0.01
pencycuron	0.01	pyridaphenthion	0.01	triadimefon	0.01
pendimethalin	0.01	pyrifenox	0.01	triadimenol	0.01
penflufen	0.01	pyrimethanil	0.01	triallate	0.01
pentachloroaniline	0.01	pyriproxyfen	0.01	triasulfuron	0.01
pentanochlor	0.01	quassia	0.01	triazamate acid	0.01
penthiopyrad	0.01	quinalphos	0.01	triazophos	0.01
permethrin	0.01	quinmerac	0.01	tricyclpyr	0.01
phenmedipham	0.01	quinoclamine	0.01	tricyclazole	0.01
phenthoate	0.01	quinomethionate	0.01	trifloxystrobin	0.01
phorate	0.01	quinoxifen	0.01	triflumizole	0.01
phorate sulphone	0.01	quintozene	0.01	triflumuron	0.01
phorate sulphoxide	0.01	quizalofop-p	0.01	trifluralin	0.01
phosalone	0.01	resmethrin	0.01	triforine	0.01
phosmet	0.01	rimsulfuron	0.01	triticonazole	0.01
phosphamidon	0.01	rotenone	0.01	vinclozolin	0.01
phoxim	0.01	simazine	0.01	zoxamide	0.01
picolinafen	0.01	spinetroram	0.01		
picoxystrobin	0.01	spinosad	0.01	Additional Tests included (will be risk based depending on ingredient list)	
piperonyl butoxide	0.01	spirodiclofen	0.01	Pesticide	mg/kg
pirimicarb	0.01	spiromesifen	0.01	ETU/PTU (Infant Formula, Fruit & Veg, Fruit juice etc)	0.006
pirimicarb-desmethyl	0.01	spirotetramat	0.01	Chlormequat (on Cereals)	0.01
pirimiphos-ethyl	0.01	spirotetramat-enol	0.01		
pirimiphos-methyl	0.01	spiroxamine	0.01		
prochloraz	0.01	sulcotrione	0.01		
procymidone	0.01	sulfoxaflor	0.01		
profenofos	0.01	tebuconazole	0.01		
promecarb	0.01	tebufenozide	0.01		
prometryn	0.01	tebufenpyrad	0.01		
propachlor	0.01	tebuthiuron	0.01		
propamocarb (free base)	0.01	tecnazene	0.01		
propanil	0.01	teflubenzuron	0.01		
propaquizafop	0.01	tefluthrin	0.01		
propargite	0.01	tepraloxydim	0.01		
propetamphos	0.01	terbuthylazine	0.01		
propham	0.01	terbutryn	0.01		
propiconazole	0.01	tetrachlorvinphos	0.01		

Notes:

This suite of testing covers the requirements under Directive 2006/141/EC, which encompasses the specific rules on the presence of pesticides residues in infant and follow-on formulae, previously set out in Commission Directive 1999/50/EC (including that for propylenethiourea (PTU) & ethylenethiourea (ETU) which is a separate method.

It also covers the pesticide requirements for processed cereal-based foods & baby foods for infants and young children currently covered by Commission Directive 2006/125/EC, which was adopted under the old legislative framework of Directive 2009/39/EC. This Directive encompasses the specific rules on the presence of pesticides residues in processed cereal-based baby foods and baby foods set out in Commission Directive 99/39/EC. The price also includes the cost for Chlormequat in cereal products.