Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



2504

Accredited to ISO/IEC 17025:2017

Minerva Scientific Ltd

Issue No: 036 Issue date: 22 February 2024

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DE21 7RY

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD AND ANIMAL FEEDINGSTUFFS	Chemical Tests Organic and inorganic contaminants	Documented in-house method Management of Flexible scope and
	(naturally occurring and process related contaminants including mycotoxins, pesticide residues, antibiotics, veterinary drugs and metals)	development of relatible scope and development of validated methods in accordance with TECHSOP 037 using single laboratory validation protocol for the sample preparation/techniques combinations:
	Additives	Sample preparation Solid phase extraction Solvent extraction Derivatisation ELISA GC with ECD, NPD, FPD, MS, MS/MS detection Headspace GC, HPLC and Ion chromatography with Fluorescence, RI, MS, MS/MS, UV- Vis, Diode Array, electrochemical detection, elemental analyser UV-Vis/Colorimetric Assay Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
FOOD AND ANIMAL FEEDINGSTUFFS	<u>Chemical Tests</u>	Documented in-house method
Herbs, teas and spices	Ochratoxin A	TOX 17 using LC MS/MS
	Aflatoxins B ₁ , B ₂ , G1, G2 and Total Aflatoxins	TOX 18 using LC MS/MS

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FOOD AND ANIMAL FEEDINGSTUFFS (cont'd)	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
- Cereals	Fumonisins	TOX 13 using LC-MS/MS
	Trichothecene Mycotoxins Nivalenol Deoxynivalenol (DON or Vomitoxin) 3-Acetyldeoxynivalenol 15-Acetyldeoxynivalenol Fusarenone X Neosolaniol Diacetoxyscirpenol T2-Triol HT-2 T-2	TOX 12 using LC/MS/MS
FOOD	Ochratoxin A	TOX 19 using LC MS/MS
	Zearalenone	TOX 20 using LC MS/MS
	Aflatoxin B and G	TOX 21 using LC MS/MS
Milk and milk products	Aflatoxin M1	TOX 22 using LC MS/MS

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FOOD AND ANIMAL FEEDINGSTUFFS (cont'd)	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
Honey	Chloramphenicol	VETRES 02 using ELISA
	Fluoroquinolone and Quinolone antibiotics: Ciprofloxacin Danofloxacin Difloxacin Enoxacin Enrofloxacin Fleroxacin Fleroxacin Flumequine Lomefloxacin Marbofloxacin Norfloxacin Ofloxacin Sarafloxacin Sparfloxacin	VETRES 10 using LC/MS/MS
	Macrolide and Aminoglycoside antibiotics: Clindamycin Erythromycin A Josamycin Leucomycin hydrate Lincomycin Ormethoprim Roxithromycin Spiramycin I Tiamulin Tilmicosin Trimethoprim Tylosin A Tylosin B	VETRES 09 using LC/MS/MS
	Nitrofuran metabolites: 1-Amino hydroantoin (AHD) AMOZ AOZ Semicarbazide (SEM)	VETRES 08 using LC/MS/MS
	Streptomycin and Dihydrostreptomycin	VETRES 14 using LC/MS/MS

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HONEY (cont'd)	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
	Azulam, Dapsone and Sulfonamides: Sulfabenzamide Sulfacetamide Sulfachloropyridazine Sulfaclozine Sulfadiazine Sulfadimethoxine Sulfadoxine Sulfaguanidine Sulfapyridine Sulfapyridine Sulfaquinoxaline Sulfamerazine Sulfameter Sulfameter Sulfamethoxazole Sulfamethoxazole Sulfamethoxazole Sulfamethoxypyridazine Sulfamonomethoxine Sulfamoxole Sulfanilamide Sulfasomidin Sulfisoxazole	VETRES 13 using LC-MS/MS
	Tetracyclines: Oxytetracycline Tetracycline Chlortetracycline Doxycycline	VETRES12 using LC-MS/MS
	Qualitative determination of Tetracyclines	VETRES 11 using Tetrasensor honey kit
	Colour	NUT07 using Hanna Colour analyser
	Diastase	NUT10 using UV/Vis spectrophotometer
	Dihydroxyacetone (DHA) and Methylglyoxal (MGO)	NUT23 using HPLC

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HONEY (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented in-house methods (cont'd)
	Hydroxymethylfurfural (HMF)	NUT02 using UV/Vis spectrophotometry
		NUT29 using HPLC
	Methyl Anthranilate	NUT28 using LC-MS/MS
	Rice syrup marker (3-Acetylfuran-3-Glucopyranoside)	NUT15 using LC-MS/MS
	Nitroimidazoles: Dimetridazole Dimetridazole-OH Ipronidazole Ipronidazole-OH Metronidazole Metronidazole-OH Ronidazole	VETRES15 by LC-MS/MS
	pH & free acidity	NUT09 using pH meter
	Water	NUT08 using Refractometer
	Sugars (glucose, fructose, sucrose)	NUT01 using Ion Chromatography with electrochemical detecter
	% C4 sugar content based on 12C/13C stable isotopic ratio	NUT05 using Stable Carbon Elemental Analyser Isotope Ratio Mass Spectrometry
	C3 sugars	NUT34 using LC-IRMS
	β-Fructofuranoside	NUT16 using HPLC-RI
	Metals: Arsenic Cadmium Lead Mercury	MET-01 using ICP MS
	END	

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