


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>2504</p> <p>Accredited to ISO/IEC 17025:2017</p>	Minerva Scientific Ltd	
	Issue No: 035 Issue date: 27 September 2023	
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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	<u>Chemical Tests</u> Organic and inorganic contaminants (naturally occurring and process related contaminants including mycotoxins, pesticide residues, antibiotics, veterinary drugs and metals) Additives	Documented in-house method Management of Flexible scope and development of validated methods in accordance with TECHSOP 037 using single laboratory validation protocol for the sample preparation/ techniques combinations: 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 Herbs, teas and spices	<u>Chemical Tests</u> Ochratoxin A Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ and Total Aflatoxins	Documented in-house method TOX 17 using LC MS/MS TOX 18 using LC MS/MS



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



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



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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 detector
	% 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