


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>	<p>Minerva Scientific Ltd</p> <p>Issue No: 030 Issue date: 27 May 2021</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>FOOD AND ANIMAL FEEDINGSTUFFS</p>	<p><u>Chemical Tests</u></p> <p>Organic contaminants (naturally occurring and process related contaminants including mycotoxins, pesticide residues, antibiotics, veterinary drugs)</p> <p>Additives</p>	<p>Documented in-house method</p> <p>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:</p> <p>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 UV-Vis/Colorimetric Assay</p>
<p>FOOD AND ANIMAL FEEDINGSTUFFS</p> <p>Cereals, Cereal grains and Flours Mixed cereal based matrices (dried) Dried fruits and vegetables Fresh fruits and vegetables Nuts and nut products</p>	<p><u>Chemical Tests</u></p> <p>Aflatoxins B₁, B₂, G₁, G₂ and Total Aflatoxins</p>	<p>Documented in-house method</p> <p>TOX 01 using HPLC with fluorescence detection</p>



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FOOD AND ANIMAL FEEDINGSTUFFS (cont'd) Cereals, Cereal grains and Flours Mixed cereal based matrices (dried) Dried fruits and vegetables Malt and Malt products Beer, wine, and juices, Herbs, teas and spices Cereals, Cereal grains and Flours Mixed cereal based matrices (dried)	<u>Chemical Tests (cont'd)</u> Ochratoxin A Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ and Total Aflatoxins Ochratoxin A Zearalenone	Documented in-house methods (cont'd) TOX 03 using HPLC with fluorescence detection TOX 18 using LC MS/MS TOX 17 using LC MS/MS TOX 04 using HPLC with fluorescence detection
FOOD AND FOODSTUFFS - Cereals	<u>Chemical Tests</u> Fumonisin Trichothecene Mycotoxins Nivalenol Deoxynivalenol (DON or Vomitoxin) 3-Acetyldeoxynivalenol 15-Acetyldeoxynivalenol Fusarenone X Neosolaniol Diacetoxyscirpenol T2-Triol HT-2 T-2	Documented in-house methods TOX 13 using LC-MS/MS TOX 12 using LC/MS/MS
- Honey	Chloramphenicol	VETRES 02 using ELISA



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<p>HONEY</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Fluoroquinolone and Quinolone antibiotics:</p> <ul style="list-style-type: none"> Ciprofloxacin Danofloxacin Difloxacin Enoxacin Enrofloxacin Fleroxacin Flumequine Lomefloxacin Marbofloxacin Norfloxacin Ofloxacin Sarafloxacin Sparfloxacin <p>Macrolide and Aminoglycoside antibiotics:</p> <ul style="list-style-type: none"> Clindamycin Erythromycin A Josamycin Leucomycin hydrate Lincomycin Ormethoprim Roxithromycin Spiramycin I Tiamulin Tilmicosin Trimethoprim Tylosin A Tylosin B <p>Nitrofurantoin metabolites:</p> <ul style="list-style-type: none"> 1-Amino hydroantoin (AHD) AMOZ AOZ Semicarbazide (SEM) <p>Streptomycin and Dihydrostreptomycin</p>	<p>Documented in-house methods (cont'd)</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)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Azulam, Dapsone and Sulfonamides:</p> <ul style="list-style-type: none"> Sulfabenzamide Sulfacetamide Sulfachloropyridazine Sulfaclozine Sulfadiazine Sulfadimethoxine Sulfadoxine Sulfaguanidine Sulfaisozole Sulfapyridine Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfameter Sulfamethizole Sulfamethazine Sulfamethoxazole Sulfamethoxypyridazine Sulfamonomethoxine Sulfamoxole Sulfanilamide Sulfaphenazole Sulfasomidin Sulfisoxazole <p>Tetracyclines:</p> <ul style="list-style-type: none"> Oxytetracycline Tetracycline Chlortetracycline Doxycycline <p>Qualitative determination of Tetracyclines</p> <p>Colour</p> <p>Diastase</p> <p>Dihydroxyacetone (DHA) and Methylglyoxal (MGO)</p>	<p>Documented in-house methods (cont'd)</p> <p>VETRES 13 using LC-MS/MS</p> <p>VETRES12 using LC-MS/MS</p> <p>VETRES 11 using Tetrasensor honey kit</p> <p>NUT07 using Hanna Colour analyser</p> <p>NUT10 using UV/Vis spectrophotometer</p> <p>NUT23 using HPLC</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 Isotope Ratio Mass Spectrometry
	C3 sugars	NUT34 using LC-IRMS
	Vitamin C	NUT43 using HPLC
	β -Fructofuranoside	NUT16 using HPLC-RI
- Honey Lozenges	Vitamin C	NUT44 using HPLC

END