Schedule of Accreditation

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United Kingdom Accreditation Service

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Accredited to ISO/IEC 17025:2005

Minerva Scientific Ltd

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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	Chemical Tests	Documented in-house method
	Organic contaminants (naturally occurring and process related contaminants including mycotoxins, pesticide residues, antibiotics, veterinary drugs)	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:
	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 UV-Vis/Colorimetric Assay
FOOD AND ANIMAL FEEDINGSTUFFS	Chemical Tests	Documented in-house method
Cereals, Cereal grains and Flours Mixed cereal based matrices (dried) Dried fruits and vegetables Fresh fruits and vegetables Nuts and nut products	Aflatoxins B_1, B_2, G1, G2 and Total Aflatoxins	TOX 01 using HPLC with fluorescence detection

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD AND ANIMAL FEEDINGSTUFFS (cont'd)	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
Cereals, Cereal grains and Flours Mixed cereal based matrices (dried) Dried fruits and vegetables Malt and Malt products Beer, wine and juices	Ochratoxin A	TOX 03 using HPLC with fluorescence detection
Cereals, Cereal grains and Flours Mixed cereal based matrices (dried)	Zearalenone	TOX 04 using HPLC with fluorescence detection
FOOD AND FOODSTUFFS	Chemical Tests	Documented in-house methods
- Cereals	Fumonisins	TOX13 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
	Pesticides: Chlormequat Mepiquat	RES12D using LC-MS/MS
- Honey	Chloramphenicol	VETRES 02 using Ridascreen ELISA

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HONEY	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
	Fluroquinolone and Quinolone antibiotics: Ciprofloxacin Danofloxacin Difloxacin Enoxacin Enrofloxacin Fleroxacin Flumequine Lomefloxacin Marbofloxacin Norfloxacin OfloxacinSarafloxacin 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HONEY (cont'd)	Chemical Tests (cont'd)	Documented in-house methods (cont'd)
	Azulam, Dapsone and Sulfonamides: Sulfabenzamide Sulfacetamide Sulfachloropyridazine SulfaclozineSulfadiazine Sulfadimethoxine Sulfadoxine Sulfaguanidine Sulfaisozole Sulfapyridine Sulfaquinoxaline Sulfathiazole Sulfamerazine Sulfameter Sulfamethizole Sulfamethazine Sulfamethoxazole Sulfamethoxypyridazine Sulfamonomethoxine Sulfamoxole Sulfanilamide Sulfaphenazole 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HONEY (cont'd)	Chemical Tests (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 Metronidazole 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	NUT04 & NUT05 using Stable Carbon Isotope Ratio Mass Spectrometry
	Vitamin C	NUT43 using HPLC
- Honey Lozenges	Vitamin C	NUT44 using HPLC
END		