

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



1398

Accredited to
ISO/IEC 17025:2017

Kent Scientific Services

Issue No: 055 Issue date: 25 November 2021

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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
ANIMAL FEEDINGSTUFFS	<u>Chemical Tests and related opinions and interpretations</u>	Documented In-House Methods
	Aflatoxins B ₁ , B ₂ , G ₁ and G ₂	F/0329 by immunoaffinity column Separation and HPLC with Kobra cell and fluorescence detector
	Ash Content	KSS AG2 based on Commission Regulation (EC) No 152/2009
	Crude Fibre	KSS AG49 based on Commission Regulation (EC) No 152/2009 KSS AG49A based on Commission Regulation (EC) No 152/2009(Fibre Bag)
	Copper	KSS M334 by ashing and acid dissolution and AAS
	Inorganic Arsenic	KSS M331 by acid digestion, ashing and AAS
	Lead and Cadmium	A/0046 by flame atomic absorption Spectrometry
	Melamine	KSS M327 by HPLC with diode array detection
	Moisture	KSS AG1 using oven drying at 102°C on sand for samples containing more than 14 % moisture
	Moisture	KSS M441 by LECO Moisture Analyser



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ANIMAL FEEDINGSTUFFS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
	Moisture	KSS AG1A by moisture loss at 100°C for samples containing less than 14 % moisture
	Nitrogen	KSS M26 byDumas
	Oil	KSS AG15 using solvent extraction based on Commission Regulation (EC) No 152/2009
	Vitamin A and Vitamin E	KSS M95 using HPLC (UV detector) and Fluorimetric detector
	Total Mercury	KSS M35, digestion followed by Cold Vapour Atomic Absorption Spectrometry
Cereal based feedingstuffs	Fumonisin, B ₁ and B ₂	KSS M305 by HPLC
ATMOSPHERIC POLLUTANTS	<u>Chemical Tests</u>	
Dust and Paint	Lead above 20 mg/kg	KSS AP6 by atomic absorption Spectrometry



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BODY FLUIDS and TISSUES	<u>Forensic Analysis</u>	Documented in house methods
Blood (Preserved, Unpreserved)	Presumptive screening for the presence of the following drug (s) or drug group(s) (cut-off limit): Amitriptyline (100 ng/mL) Carbamazepine (200 ng/mL) Citalopram (100 ng/mL) Diazepam (100 ng/mL) Dothiepin (100 ng/mL) Fluoxetine (100 ng/mL) Nortriptyline (100 ng/mL) Venlafaxine (50 ng/mL) Zopiclone (100 ng/mL)	TOX 05 by High-performance liquid chromatography (HPLC)
Blood (Preserved, Unpreserved)	Amitriptyline (50 ng/mL) Methadone (50 ng/mL) Quantitative analysis of the following drugs (concentration range):	TOX 05 by Gas chromatography mass spectrometry (GC-MS)
Blood (Preserved, Unpreserved)	Paracetamol (5000-200,000ng/ml), Ibuprofen (20,000-200,000ng/ml), Salicylic acid (5000-200,000ng/ml),	TOX 03 by High-performance liquid chromatography (HPLC)
Blood (Preserved, Unpreserved)	Cannabinoids Group: tetrahydrocannabinol and tetrahydrocannabinol acid (5 – 100 ng/mL)	TOX 51 by Solid Phase Extraction and GC-MS
Blood (Preserved, Unpreserved)	Methadone (250 – 5000 ng/mL)	TOX 20 by GC-MS
Blood and Urine	Screening or Quantitative Analysis for Drugs of Abuse or Prescription medications	Development and modification of methods for toxicology analysis using generic in-house methods KSSG2-G7 for the techniques GC-FID, GC NPD, GC-MS, HPLC and Immunoassay under flexible scope SOP 26



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BODY FLUIDS and TISSUES	<u>Forensic Analysis</u>	Documented in house methods
Blood (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range): Benzoyllecgonine (20 – 2000 ng/mL) Cocaine (20 – 2000 ng/mL) Codeine (20 – 2000 ng/mL)	TOX 52 by7 GC-MS
Blood (Preserved, Unpreserved)	Amitriptyline (100 – 5000 ng/mL) Carbamazepine (100 – 5000 ng/mL) Citalopram (100 – 5000 ng/mL) Diazepam (100 – 5000 ng/mL) Diphenhydramine (100 –5000 ng/mL) Dothiepin (100 – 5000 ng/mL) Fluoxetine (100 – 5000 ng/mL) Ketamine (100 – 5000 ng/mL) Lignocaine (100 – 5000 ng/mL) Mirtazapine (100 – 5000 ng/mL) Nortriptyline (100 – 5000 ng/mL) Propranolol (100 – 5000 ng/mL) Quetiapine (100 – 5000 ng/mL) Sertraline (100 – 5000 ng/mL) Tramadol (100 – 5000 ng/mL) Venlafaxine (100 – 5000 ng/mL) Zopiclone (100 – 5000 ng/mL)	TOX 30 by HPLC/DAD
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Quantitation of Ethanol (0.02mg/ml)	TOX 16 Headspace by gas chromatography/FID



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CONSUMER PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods
Alkaline Products	Alkali	KSS M215 by titration
Consumer Products (excluding electrical items)	Additives, colourings, preservatives and related contaminants & composition	Development and modification of methods for consumer product analysis using generic in-house methods, SOP 26 KSS G2 - G8 for the techniques HPLC, GC, GC-MS, AAS, ELISA, UV-Vis and wet chemistry under flexible scope
COSMETICS	<u>Chemical Tests</u>	Documented In-House Methods
	Hydrogen peroxide in cosmetic products	KSS CP5 by titration
	Hydroquinone in skin lightening creams	KSS CP2 using HPLC/DAD
	Lead in cosmetics	KSS CP11 by AAS
	Methylisothiazoline (MI)	KSS CP12 by HPLC
	Para-phenylenediamine in Hair Dyes and other water soluble dyes.	KSS CP9 by HPLC with UV detector or diode ray detector
	Steroids	KSS CP14 by HPLC
	Thioglycollic acid in depilatories	KSS CP1 using titrimetry
	Total Mercury	KSS M342 by digestion followed by Cold Vapour Atomic Absorption Spectrometry
FERTILISERS	<u>Chemical Tests and related opinions and interpretations</u>	
	Total Nitrogen	KSS AG85 using chromium reduction, distillation and back-titration
	Total Nitrogen in the presence of Nitrate	KSS AG86 using Iron Reduction
	Phosphorus soluble in neutral ammonium citrate	KSS AG82 using Gravimetry method



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FERTILISERS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u> Total Phosphorus Total Potassium Water Soluble Phosphorus Water Soluble Potassium	Documented In-House Methods KSS AG84 using Gravimetry method KSS AG81 using Gravimetry method KSS AG83 using Gravimetry method KSS AG80 using Gravimetry method
FOODS	<u>Chemical Tests and related opinions and interpretations</u> Acrylamide	Documented In-House Methods KSS M416 by GCMS
Beverages - alcoholic - Spirits	Ethanol Alcoholic strength	KSS M6A by GC-FID KSS M6 by obscuration using a Gay-Lussac pycnometer
Beverages - non-alcoholic - Apple Juice - Fruit Drinks	Congeners Patulin Vitamin C	KSS M61 using Gas Chromatography F/0031 using HPLC with diode array detector KSS M66A by HPLC based on BS EN 14130:2003 (withdrawn)
Canned Fruit and Vegetables	Drained weight	KSS M92 by Gravimetry
Cereals	Fumonisin B ₁ & B ₂ Zearalenone	KSS M305 by HPLC KSS M286 by Immunoaffinity Column Separation and High Performance Liquid Chromatography with fluorescence detector



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
Beer, Cereals and Cereal based feedingstuffs	Deoxynivalenol	KSS M288 using HPLC
	T2 and HT2 toxins	KSS M306 using GCMS
Dairy Products		
- Cheese	Moisture	KSS M96 by Oven Drying
Confectionery and High Sugar Content Products		
- Cocoa and Chocolate Products	Theobromine	KSS M18 using HPLC with UV detector
- Honey	Hydroxymethyl furfural	KSS M55 using HPLC with UV detector
Food and animal feeds		
	Arsenic	KSS M34 using Hydride Generation and Atomic Absorption Spectrometry
	Histamine	KSS M287 using High Performance Liquid Chromatography
	Mercury	KSS M35 using Cold Vapour Atomic Absorption Spectrometry
Fruit and Vegetables		
	Pesticides: Refer to Table 1 for the list of Pesticide Residues	KSS M271 using the QuEChERS extraction followed by GCMS
	Pesticides: Refer to Table 2 for the list of Pesticide Residues	KSS M376 using the QuEChERS extraction followed by LCMS
Fruit and Vegetables Processed Products	Dry soluble residue (Sol Sols)	F/0247 using refractometry
Herbs and Spices and other Vegetable Material	Microscopical examination and identification	F/0224/2
Beer, Wine, Cereals, Dried Fruits and Spices	Ochratoxin A	KSS M268 using Immunoaffinity Column separation with HPLC with fluorescence detector



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
Raw beef & raw prawns	Amphenicols: Chloramphenicol Florfenicol Thiamphenicol	KSS M377 by HPLC and Triple Quad MS
Meat and Meat Products	Colours: Allura Red Carmoisine Ponceau 4R Sunset Yellow Tartrazine L(-) Hydroxyproline	KSS M29B using HPLC with visible spectrophotometric detection KSS M47 based on BS 4401:Part 11:1995 using acid digestion and spectrophotometry
Meat and Meat Products, Fish and Fish Products	Sulphur Dioxide Total Volatile Nitrogen	KSS M22 using modified Monier-Williams F/0157 by distillation and titration
Oils and Fats	Free fatty acids Fatty acid profile Peroxide value	KSS M28 by Titration KSS M60 using Gas Chromatography/FID KSS M28A by Titration
Ready to Eat Snacks	Free oil	KSS M90 using Soxhlet extraction
Unspecified Foods and Animal feeds	Additives, colourings, preservatives and related contaminants & composition	Development and modification of methods for food and feed analysis using generic in-house methods, SOP026, KSS G2 – G8 for the techniques HPLC, LC/MS, GC, GC/MS, AAS, UV VIS, spectrophotometry, microscopy, ELISA and wet chemistry (drying, weighing and titration)



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
Unspecified Foods	Food composition and related contaminants	
	Acidity	KSS M27 by titrimetry
	Aflatoxins B ₁ , B ₂ , G ₁ and G ₂	F/0329 by immunoaffinity column separation and HPLC with a Kobra cell and fluorescence detector
	Ash	KSS M2 using atmospheric ashing (525 ± 25 °C)
	Benzoic Acid and Sorbic Acid	KSS M23 by HPLC UV detector
	Calcium, Iron and Zinc	KSS M31 by AAS
	Dietary Fibre (Total)	KSS M424 based on AOAC 985.29 by Automated Ankom Dietary Fibre Analyser
	Fat	KSS M15 using acid digestion and solvent extraction
	Allergens: Gluten Soya	KSS M338 by ELISA KSS M410 by ELISA using R-Biopharm Ridascreen FAST ELISA kit
	Inorganic Arsenic	KSS M331 by acid digestion, ashing and AAS
	L-Glutamic acid and Glutamate content	KSS M223 using HPLC and Refractive Index Detector
	Cadmium, copper and iron	KSS M30 using atomic absorption Spectrometry
	3-Monochloro-1, 2-Propanediol (3-MCPD)	KSS M235 using GCMS



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
Unspecified Foods (cont'd)	Food composition and related contaminants (cont'd)	
	Melamine	KSS M327 by HPLC with diode array detection
	Starch	KSS M243 using Polarimetry
	Moisture	KSS M1 based on BS 4401 Part 3:970
	Moisture	KSS M441 by LECO Moisture Analyser
	Nitrogen	KSS M26 by Dumas
	pH	KSS M5
	Phosphorus	KSS M252 using ashing followed by UV/VIS spectrophotometry
	Potassium	KSS M4 using dissolution and flame photometry
	Stevia	KSS M398 by HPLC
	Sucralose	KSS M279 by HPLC
	Sulphur dioxide	KSS M22 based on using modified Monier-Williams
	Vitamin A and trans Beta carotene	KSS M328 by saponification and solvent extraction with determination by HPLC
	Vitamin C	KSS M66A by HPLC based on BS EN 14130:2003
	Sudan dyes and Para Red	KSS M270 using Solvent Extraction followed by HPLC - Diode Array detector
	Sweeteners: Acesulfame K, Aspartame, Saccharin and Caffeine	KSS M23 by HPLC - UV detector



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations (cont'd)</u>	Documented In-House Methods
Unspecified Foods (cont'd)	Food composition and related contaminants (cont'd)	
	Qualitative colours including: Amaranth (E123) Ponceau 4R (E124) Quinoline Yellow (E104) Allura Red (E129) Indigo Carmine (E132) Brilliant Blue FCF (E133) Carmoisine (E122) Sunset Yellow FCF (E110) Tartrazine (E102) Green S (E142) Patent Blue V (E131) Black PN (151) Brown FK (E154) Chocolate Brown HT (E155) Erythrosine BS (E127) Red 2G (E128)	F/0135/2a by paper chromatography
	Fructose, Glucose, Lactose, Maltose and Sucrose	KSS M10 by HPLC - RI detector
	Quantitative colours Amaranth (E123) Ponceau 4R (E124) Quinoline Yellow (E104) Allura Red (E129) Indigo Carmine (E132) Brilliant Blue FCF (E133) Carmoisine (E122) Sunset Yellow FCF (E110) Tartrazine (E102) Green S (E142) Patent Blue V (E131)	KSS M29A using HPLC
GLASS	<u>Physical Tests</u>	
	Specific gravity	KSS S9 using flotation and pycnometry



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PLASTICS Kitchenware	<u>Chemical Tests</u> Determination of formaldehyde released from Melamine kitchenware The extraction of primary aromatic amines from polyamide kitchenware and formaldehyde from Melamine Kitchenware Determination of primary aromatic amines released from Polyamide Kitchenware	KSS M349 by Spectrometry KSS M351 by Migration into an acetic acid stimulant KSS M350 by HPLC
END		



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Table 1 - KSS M271 using the QuEChERS extraction followed by GCMS

Acetochlor	Ethoxyquin	Pendimethalin
Atrazine	Etrimfos	Permethrin
Azoxystrobin	Etridiazole	Phenthoate
Benalaxyl	Fenazaquin	o-phenylphenol
Benfluralin	Fenarimol	Phorate
Bifenthrin	Fenchlorphos	Phosalone
Biphenyl	Fenitrothion	Picoxystrobin
Bitertanol	Fenpropathrin	Piperonyl butoxide
Boscalid	Fenpropimorph	Pirimicarb
Bromophos-ethyl	Fenthion	Pirimiphos-ethyl
Bromopropylate	Fenvalerate	Pirimiphos-methyl
Bupirimate	Fludioxonil	Pyriproxifen
Buprofezin	Flufenacet	Prometryn
Cadusafos	Flusilazole	Procymidone
Chlorbenside	Flutolanil	Profenofos
Chlorofenapyr	Fluvalinate	Propham
Chlorfenvinphos	Fonofos	Propiconazole
Chlorfenson	Furalaxyl	Propyzamide
Chlorobenzilate	alpha HCH	Prosulfocarb
Chlorpropham	beta HCH	Prothiofos
Chlorpyrifos	gamma HCH	Pyraclostrobin
Chlorpyrifos-methyl	delta HCH	Pyridaben
Chlorthal-dimethyl	Heptachlor	Pyrazophos
cis-permethrin	Heptenophos	Pyrimethanil
cis-tefluthrin	Hexachlorobenzene	Quinalphos
Cyhalothrin	Iodofenphos	Quinoxifen
Cyprodinil	Imazalil	Quintozene
pp-DDD	Iprodione	Resmethrin
o,p-DDE	lprovalicarb	Simazine
p,p-DDE	Isazofos	Spiromesifen
o,p-DDT	Isofenphos	Spiroxamine (two isomers)
pp-DDT	Isofenphos- methyl	Tebuconazole
Diazinon	Kresoxim-methyl	Tebufenpyrad
Dichlorvos	Lenacil	Tecnazene
Dicloran	Malathion	Terbutryn
Dicofol	Mecarbam	Tetrachlorvinphos
Dieldrin	Metalaxyl	Tetraconazole
Dimoxystrobin	Methacrifos	Tetradifon
Diniconazole	Methidathion	Tetramethrin
Diphenylamine	Methoxychlor	Tolclofos-methyl
Difenoconazole	Metolachlor	Tolyfluanid
Disulfoton	Myclobutanil	Trans-Permethrin
a-endosulfan	Nitrothal-isopropyl	Triadimefon
b-endosulfan	Oxadiazon	Triadimenol
Endosulfan sulphate	Oxadixyl	Triazophos
EPN	Paclobutrazole	Trifloxystrobin
EPTC	Parathion-ethyl	Trifluralin
Ethion	Parathion-methyl	Vinclozolin
Ethofumesate	Penconazole	zeta-cypermethrin
END OF LIST		



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Table 2 - KSS M376 using the QuEChERS extraction followed by LCMS

Acephate	Dicrotophos	Monocrotophos
Acetamiprid	Dimethoate	Omethoate
Aldicarb	Dimethomorph A	Oxamyl
Aldicarb-sulphone	Dimethomorph B	Pencycuron
Carbaryl	Dinotefuran	Thiacloprid
Carbofuran	2,4-Dimethylaniline	Thiamethoxam
Clothianidin	DMFP	Triforine
Cyproconazole A	Formetanate	
Cyproconazole B	Imidacloprid	
Demeton-S-methylsulfone	Methiocarb	
Demeton-S-methylsulfoxide	Methomyl	
END OF LIST		