


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>1398</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Kent Scientific Services</h3> <p>Issue No: 061    Issue date: 03 December 2024</p>	
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<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS	<p><u>Chemical Tests and related opinions and interpretations</u></p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub> and G<sub>2</sub></p> <p>*Ash Content</p> <p>*Crude Fibre (Reference Method)</p> <p>*Crude Fibre (Routine Method)</p> <p>*Copper</p> <p>*Inorganic Arsenic</p> <p>*Lead and Cadmium</p> <p>*Melamine</p>	<p>Documented In-House Methods</p> <p>F/0329 by immunoaffinity column Separation and HPLC with Kobra cell and fluorescence detector</p> <p>KSS AG2 based on Commission Regulation (EC) No 152/2009</p> <p>KSS AG49 based on Commission Regulation (EC) No 152/2009</p> <p>KSS AG49A based on Commission Regulation (EC) No 152/2009(Fibre Bag)</p> <p>KSS M334 by ashing and acid dissolution and AAS</p> <p>KSS M331 by acid digestion, ashing and AAS</p> <p>A/0046 by flame atomic absorption Spectrometry</p> <p>KSS M327 by HPLC with diode array detection</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS (cont'd)	<p><u>Chemical Tests and related opinions and interpretations</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Moisture (Reference Method)</p> <p>*Moisture (Reference Method)</p> <p>*Moisture (Routine Method)</p> <p>*Nitrogen</p> <p>*Oil</p> <p>*Vitamin A and Vitamin E</p> <p>*Total Mercury</p>	<p>Documented In-House Methods</p> <p>KSS AG1 using oven drying at 102°C on sand for samples containing more than 14 % moisture</p> <p>KSS AG1A by moisture loss at 100°C for samples containing less than 14 % moisture</p> <p>KSS M441 by LECO Moisture Analyser</p> <p>KSS M26 by Dumas</p> <p>KSS AG15 using solvent extraction based on Commission Regulation (EC) No 152/2009</p> <p>KSS M95 using HPLC (UV detector) and Fluorimetric detector</p> <p>KSS M35, digestion followed by Cold Vapour Atomic Absorption Spectrometry</p>
Cereal based feedingstuffs	*Fumonisin, B <sub>1</sub> and B <sub>2</sub>	KSS M305 by HPLC
ATMOSPHERIC POLLUTANTS Dust and Paint	<p><u>Chemical Tests</u></p> <p>Lead above 20 mg/kg</p>	KSS AP6 by atomic absorption Spectrometry



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BODY FLUIDS and TISSUES	<u>Analysis of Coroner Samples for Medical Investigation</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) 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)	Methadone (300 ng/mL)  Quantitative analysis of the following drugs (concentration range):	TOX 05 by Gas chromatography mass spectrometry (GC-MS)
Blood (Preserved, Unpreserved)	Paracetamol (5000-400,000ng/ml), Ibuprofen (20,000-400,000ng/ml), Salicylic acid (5000-400,000ng/ml),90	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 procedures KSS G2 and G3 for the techniques GC-FID, GC NPD, GC-MS, HPLC under flexible scope SOP 26 and KSS G1



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BODY FLUIDS and TISSUES (cont'd)	<u>Analysis of Coroner Samples for Medical Investigation</u> (cont'd)	Documented in house methods
Blood (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range): (cont'd) Benzoyllecgonine (20 – 2000 ng/mL) Cocaine (20 – 2000 ng/mL) Codeine (20 – 2000 ng/mL)	TOX 52 by 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) 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)	Ethanol (10 – 400 mg/100ml)	TOX 16 using Headspace Gas Chromatography with FID detection



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<p>CONSUMER PRODUCTS</p> <p>Consumer Products (excluding electrical items)</p>	<p><u>Chemical Tests</u></p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Additives, colourings, preservatives, elements and related contaminants &amp; composition</p>	<p>Documented In-House Methods</p> <p>Development and modification of methods for consumer product analysis using generic in-house procedures, SOP 26, KSS G1, KSS G3, G4, G8 and G9 for the techniques HPLC, AAS, and wet chemistry and ICP-MS under flexible scope</p>
<p>COSMETICS</p>	<p><u>Chemical Tests</u></p> <p>*Hydrogen peroxide in cosmetic products</p> <p>*Hydroquinone in skin lightening creams</p> <p>*Lead in cosmetics</p> <p>*Methylisothiazoline (MI)</p> <p>*Para-phenylenediamine in Hair Dyes and other water soluble dyes.</p> <p>*Steroids: *Betamethasone dipropionate *Clobetasol propionate</p> <p>*Total Mercury</p> <p>*Lead *Cadmium *Arsenic *Mercury</p>	<p>Documented In-House Methods</p> <p>KSS CP5 by titration</p> <p>KSS CP2 using HPLC/DAD</p> <p>KSS CP11 by AAS</p> <p>KSS CP12 by HPLC</p> <p>KSS CP9 by HPLC with UV detector or diode ray detector</p> <p>KSS CP14 by HPLC</p> <p>KSS M342 by digestion followed by Cold Vapour Atomic Absorption Spectrometry</p> <p>KSS M470 using microwave digestion and ICP-MS</p>



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FERTILISERS	<p><u>Chemical Tests and related opinions and interpretations</u></p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Total Nitrogen</p> <p>*Total Nitrogen in the presence of Nitrate</p> <p>*Phosphorus soluble in neutral ammonium citrate</p> <p>*Total Phosphorus</p> <p>*Total Potassium</p> <p>*Water Soluble Phosphorus</p> <p>*Water Soluble Potassium</p>	<p>Documented In-House Methods</p> <p>KSS AG85 using chromium reduction, distillation and back-titration</p> <p>KSS AG86 using Iron Reduction</p> <p>KSS AG82 using Gravimetry method</p> <p>KSS AG84 using Gravimetry method</p> <p>KSS AG81 using Gravimetry method</p> <p>KSS AG83 using Gravimetry method</p> <p>KSS AG80 using Gravimetry method</p>
<p>FOODS</p> <p>Foods (General)</p> <p>Beverages - alcoholic</p> <p>- Spirits</p>	<p><u>Chemical Tests and related opinions and interpretations</u></p> <p>*Acrylamide</p> <p>*Ethanol</p> <p>*Alcoholic strength</p> <p>*Congeners</p>	<p>Documented In-House Methods</p> <p>KSS M416 by GCMS</p> <p>KSS M6A by GC-FID</p> <p>KSS M6 by obscuration using a Gay-Lussac pycnometer</p> <p>KSS M61 using Gas Chromatography</p>



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
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Beverages - non-alcoholic		
- Apple Juice	*Patulin	F/0031 using HPLC with diode array detector
- Fruit Drinks	*Vitamin C	KSS M66A by HPLC based on BS EN 14130:2003 (withdrawn)
Canned Fruit and Vegetables	*Drained weight	KSS M92 by Gravimetry
Cereals	*Fumonisin B <sub>1</sub> & B <sub>2</sub>	KSS M305 by HPLC
	*Zearalenone	KSS M286 by Immunoaffinity Column Separation and High Performance Liquid Chromatography with fluorescence detector
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



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	
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
	*Lead	KSS 470 using microwave digestion and ICP-MS
	*Cadmium	
	*Arsenic	
	*Mercury	
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 (Soluble Solids)	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
Meat and Meat Products	*L(-) Hydroxyproline	KSS M47 based on BS 4401:Part 11:1995 using acid digestion and spectrophotometry
	*Sulphur Dioxide	KSS M22 using modified Monier-Williams





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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
Meat and Meat Products, Fish and Fish Products	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625  *Total Volatile Nitrogen	F/0157 by distillation and titration
Raw and Processed Meat and Fish	*Metabolites of Nitrofurans: *3-amino-5-morphinomethyl-2-oxazolidine (AMOZ) *3-amino-2-oxazolidine (AOZ) *1-aminohydantoin (AHD) *Semicarbazied (SEM)	KSS M463 by LCMS
Raw and Processed Meat and Fish	*Veterinary Residues: *Chloramphenicol *Chlortetracycline *Doxycycline *Florfenicol *Methacycline *Oxytetracycline *Tetracycline *Thiamphenicol	KSS M446 by LCMS
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
Unspecified Foods and Animal feeds	*Additives, colourings, preservatives, elements and related contaminants & composition	Development and modification of methods for food and feed analysis using generic in-house procedures, SOP026, KSS G1, KSS G2 to G9 for the techniques HPLC, LC/MS, GC, GC/MS, AAS, UV VIS, spectrophotometry, microscopy, ELISA and wet chemistry (drying, weighing and titration) and ICP-MS. NOTE: KSS G7 - ELISA is not applicable to animal feeds



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
Unspecified Foods	<p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Food composition and related contaminants</p> <p>*Acidity</p> <p>*Aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub> and G<sub>2</sub></p> <p>*Ash</p> <p>*Benzoic Acid and Sorbic Acid</p> <p>*Calcium, Iron and Zinc</p> <p>*Colours: Allura Red Carmoisine Ponceau 4R Sunset Yellow Tartrazine</p> <p>*Dietary Fibre (Total)</p> <p>*Fat</p> <p>*Allergens: *Gluten *Soya</p>	<p>KSS M27 by titrimetry</p> <p>F/0329 by immunoaffinity column separation and HPLC with a Kobra cell and fluorescence detector</p> <p>KSS M2 using atmospheric ashing (525 ± 25 °C)</p> <p>KSS M23 by HPLC UV detector</p> <p>KSS M31 by AAS</p> <p>KSS M29B using HPLC with visible spectrophotometric detection</p> <p>KSS M424 based on AOAC 985.29 by Automated Ankom Dietary Fibre Analyser</p> <p>KSS M15 using acid digestion and solvent extraction</p> <p>KSS M338 by ELISA KSS M410 by ELISA using R-Biopharm Ridascreen FAST ELISA kit</p>



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	
Unspecified Foods (cont'd)	Food composition and related contaminants (cont'd)	
	*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
	*Melamine	KSS M327 by HPLC with diode array detection
	*Moisture (Reference Method)	KSS M1 based on BS ISO 1442:2023
	*Moisture (Routine Method)	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



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FOODS (cont'd)	<u>Chemical Tests and related opinions and interpretations</u> (cont'd)	Documented In-House Methods
	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	
Unspecified Foods (cont'd)	Food composition and related contaminants (cont'd)	
	*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 (withdrawn)
Spice Based Products and Oils	*Sudan I *Sudan II *Sudan III *Sudan IV *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
	*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



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FOODS (cont'd)  Unspecified Foods (cont'd)	<p><u>Chemical Tests and related opinions and interpretations</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*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)</p> <p>*Fructose, *Glucose, *Lactose,            *Maltose and *Sucrose</p>	<p>Documented In-House Methods</p> <p>F/0135/2a by paper chromatography</p> <p>KSS M10 by HPLC - RI detector</p>
PLASTICS  Kitchenware	<p><u>Chemical Tests</u></p> <p>Determination of formaldehyde released from Melamine kitchenware</p> <p>The extraction of primary aromatic amines from polyamide kitchenware and formaldehyde from Melamine Kitchenware</p>	<p>KSS M349 by Spectrometry</p> <p>KSS M351 by Migration into an acetic acid stimulant</p>

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