


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

| | | |
|---|--|---|
|  <p>1282</p> <p>Accredited to ISO/IEC 17025:2005</p> | <h3>Eclipse Scientific Group</h3> <p>Issue No: 070 Issue date: 14 May 2012</p> | |
| | <p>Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ</p> | <p>Contact: Alexia Masters Tel: +44 (0)1924 499776 Fax: +44 (0)1924 483731 E-Mail: alexia.masters@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk</p> |
| <p>Testing performed by the Organisation at the locations specified below</p> | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|--|---|---------------|
| <p>Address Eclipse Scientific Group Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ</p> <p>Local contact Adam Rush Tel: +44 (0)1354 695858 Fax: +44 (0)1354 692215 Email: adam.rush@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk</p> | Chemical Microbiological Group Co-ordination Activities | A |
| <p>Address Eclipse Scientific Group First Floor Building 550 Winch Road Kent Science Park Sittingbourne Kent ME9 8EF</p> <p>Local contact Adrian Goldsmith Tel: +44 (0)1795 858290 Fax: +44 (0)1795 410784 Email: adrian.goldsmith@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk</p> | Microbiological | C |
| <p>Address Eclipse Scientific Group Oakland House Hortonwood 35 Telford Shropshire TF1 7FR</p> <p>Local contact Matthew Masters Tel: +44 (0)1952 605566 Fax: +44 (0)1952 605766 Email: matthew.masters @eclipsescientific.co.uk Website: www.eclipsescientific.co.uk</p> | Chemical (Milk) Animal Health | D |
| <p>Address Eclipse Scientific Group 2 Bartholemews Walk Cambridgeshire Business Park Ely Cambridgeshire CB7 4ZE</p> <p>Local contact Sharon Hanly Tel: +44 (0)1353 660040 Fax: +44 (0)1353 660050 Email: sharon.hanly@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk</p> | Chemical (Pharmaceutical) Microbiological (Pharmaceutical) | E |



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|---|---|---|---|
| Address Sands Hill Huddersfield Road Mirfield West Yorkshire WF14 9DQ | Local contact Hannah McAlister Tel: +44 (0)1924483530 Fax: +44 (0)1924483603 Email: hmc alister@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk | Microbiological (Food) Chemical (Food) | F |
| Address 10 Sandown Centre White Horse Business Park Trowbridge BA14 0XD | Local contact Roderick Gibson Tel: +44(0)1225 769050 Fax: +44(0)1225 769080 Email: roderick.gibson@eclipsescientific.co.uk Website: www.eclipsescientific.co.uk | Microbiological (Food and water) | G |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (excluding Cheese) | <u>Chemistry Tests</u> | | |
| | <u>Nutritional and General Chemistry</u> | Documented In-House Methods: | |
| | Acidity | AM/C/922 by Titration | A |
| | Aflatoxins B1, B2, G1, G2 and Total Aflatoxins | AM/R/999 using HPLC-immunoaffinity | A |
| | Aflatoxin M1 | AM/R/993 using HPLC-immunoaffinity | A |
| | Amino Acid Profile: Total : Free | AM/V/206 using HPLC | A |
| | Ash | AM/C/803 based on BS 4401:Part 1:1998 and Feeding Stuffs (Sampling and Analysis) Regulations 1999 | A |
| | Benzoic acid/sodium benzoate Sorbic acid/potassium sorbate | AM/V/757 | A |
| | Carbohydrate: available, by difference total, by difference | By calculation: AM/C/901 using the Food Labelling Regulations 1984 (SI No 1305) and Feedingstuffs Regulations 2005 | A |
| | Chloride | AM/C/603 using Potentiometric titration based upon JAOAC 1974 | A |
| Cholesterol | AM/V/114 using Gas Chromatography JAOAC 1993 | A | |
| Energy | AM/C/901 by calculation using Commission Regulation (EC) 2008/100 and 90/496 | A | |



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| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd) | <u>Chemistry Tests</u> (cont'd) | | |
| | <u>Nutritional and General Chemistry</u> (cont'd) | | |
| | Fat (oil) | 1) AM/C/101 using Soxhlet, Method A based on Feeding Stuffs (Sampling and Analysis) Regulations 1999 | A |
| | | 2) AM/C/102 using acid hydrolysis, Method B based on Feeding Stuff Regulations, 1999 | A |
| | | 3) AM/C/103 based on Werner-Schmidt Method BS 4401:Part 4:1970 | A |
| | | 4) AM/C/104 using mixed solvents based on Bligh and Dyer Method | A |
| | Fatty Acid Composition/Profile - Saturated fats - Monounsaturated fats - Polyunsaturated fats - cis:trans analysis - non-normalised analysis - % actual fatty acids | AM/C/107 using Gas Chromatography based on BS EN ISO 5509:2001 and ISO5509:1990 | A |
| | Fibre: | | |
| | 1) Crude | AM/C/300 using fibre cap method - digestion | A |
| | 2) Dietary | AM/C/302 based on Englyst method | A |
| 3) Dietary | AM/C/309 based on AOAC Method No 985.29 | A | |
| Hydroxyproline | AM/C/998 using Colorimetry BS 4401:Part 11:1995 | A | |
| (Food Products) | Gluten/Gliadin content: quantitative | AM/R/253 by R5 Mendez Extraction and ELISA technique | A |



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| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd) | <u>Chemistry Tests</u> (cont'd) <u>Nutritional and General Chemistry</u> (cont'd) | | |
| (Food products and environmental swabs) | Quantitative (foods) and qualitative (swabs) determination of Casein and Caseinates | AMR/R/254 by ELISA using AgraQuant kit | A |
| (Animal feedingstuffs) | Metabolisable Energy (Hartel) | By calculation: AM/C/901 Feedingstuffs Regulations 2005 | A |
| (Fish and Meat Products) | Meat Content: Lean Total | By calculation: AM/C/902 by Stubbs and Moore | A |
| | Moisture Content | AM/C/801 based on Feeding Stuff Regulations 2000 | A, D |
| | Ochratoxin A | AM/R/960 HPLC - Fluorescence detection with immunoaffinity columns | A |
| (Beverages) | Ethanol | AM/V/917 using Gas Chromatography | A |
| | Peroxide Value | AM/C/112 BS 684 2.14:2001 | A |
| | Protein | AM/C/224, by DUMAS technique | A |
| | pH | ESGM-C014 using pH meter | A, D |
| (Animal Feeds and Cereal Based Foods) | Starch | AM/C/401 using Polarimetric technique based on EC Directive 79/1999/EC | A |
| | Sugars - Totals | AM/C/403 based on Luff-Schoorl Method and Feeding (Sampling and Analysis) Regulations 1999 | A |
| ANIMAL FEEDINGSTUFFS, | <u>Chemistry Tests</u> (cont'd) | | |



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| FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd) | <u>Nutritional and General Chemistry</u> (cont'd) | | |
| (Animal Feeds and Cereal Based Foods) (cont'd) | Sulphur dioxide | AM/C/925 based on Monier Williams procedure | A |
| | Tryptophan, Total | AM/V/228 using HPLC based on Official Journal of the European communities, directive 2000-45-EC | A |
| (Meat and meat Products) | Water: Added | By calculation: AM/C/902 Meat Products and Spreadable Fish Products Regulations 1984 (SI No 1566) | A |
| | Total Fat and Moisture | AM/C/1015 by oven drying and Pulsed NMR | A |
| | Metals: Calcium Copper Iron Magnesium Manganese Phosphorus Potassium Sodium Zinc | AM/C/1002 using ICP-OES | A |
| (Fruit) | Sodium | AM/C/626 using Flame Photometry | A |
| | <u>Pesticide Residues:</u> Biphenyl 2-phenylphenol | AM/R/111 using HPLC | A |
| | Dithiocarbamates (as CS ₂) | AM/R/240 using GCMS | A |
| (Fish and Meat Products) | Ivermectin | AM/R/206 using HPLC | A |
| (Fruits, vegetables, fungi and cereals) | Chlormequat and Mepiquat | AM/R/231 using LC-MS | A |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD | <u>Chemistry Tests</u> (cont'd) | | |



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| PRODUCTS (restricted matrices specified as appropriate) (cont'd) (Potatoes, onions, carrots and parsnips) | Maleic Hydrazide Multi-residue screen and quantitation: Acephate Aldrin Atrazine Azinphos-ethyl Azinphos-methyl Azoxystrobin Benalaxyl Bifenthrin Bitertanol Boscalid Bromophos Bromophos-ethyl Bromopropylate Bromuconazole Bupirimate Buprofezin Cadusafos Carbofuran (parent molecule) Carbophenothion Carbosulfan Chlordane Chlorfenvinphos Chlorothalonil Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Chlorthion Chlozolinatate Cyanazine Cyfluthrin Cypermethrin Cyproconazole DDT Deltamethrin Desmetryn | AM/R/104 using HPLC AM/R/110 using GC-MS | A A |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS | <u>Chemistry Tests</u> (cont'd) <u>Pesticide Residues:</u> (cont'd) | | |



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| (restricted matrices specified as appropriate) (cont'd) | Multi-residue screen and quantitative analysis: (cont'd) Diazinon Dichlofluanid Dichlorvos Dicloran Dicofol Dicrotophos Dieldrin Difenoconazole Dimethoate Dimethomorph Diphenylamine Endosulfan Endrin Ethion Ethofumesate Ethoprophos Etridiazole Etrimfos Fenarimol Fenchlorphos Fenitrothion Fenpropathrin Fenpropimorph Fensulfothion Fenthion Fenvalerate Fipronil Fluazifop-P-butyl Flucythrinate Flusilazole Fonofos Furalaxyl Furathiocarb Heptachlor Heptenophos Hexachlorobenzene (HCB) Hexachlorocyclohexane-alpha Hexachlorocyclohexane-beta | | |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified | <u>Chemistry Tests</u> (cont'd) <u>Pesticide Residues:</u> (cont'd) | | |



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| as appropriate) (cont'd) | Multi-residue screen and quantitative analysis: (cont'd) Hexachlorocyclohexane-gamma Hexaconazole Imazalil Iodofenfos Iprodione Isazophos Isofenphos Isoprocab Kresoxim-methyl lambda cyhalothrin Malathion Mecarbam Mepanipyrim Metalaxyl Metalaxyl-M Metazachlor Methacrifos Methamidophos Methidathion Methoxychlor Metribuzin Mevinphos Monocrotophos Myclobutanil Napropamide Nuarimol Ofurace Omethoate Oxadixyl Paclobutrazol Parathion Parathion-methyl Penconazole Pendimethalin Permethrin Phenthoate Phosalone Phosmet | | |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified) | <u>Chemistry Tests</u> (cont'd) <u>Pesticide Residues:</u> (cont'd) | | |



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| as appropriate) (cont'd) | Multi-residue screen and quantitative analysis: (cont'd) Phosphamidon Pirimicarb Pirimiphos-ethyl Pirimiphos-methyl Prochloraz Procymidone Profenophos Prometryn Propachlor Propargite Propham Propiconazole Propyzamide Prothiofos Pyrazophos Pyridaphenthion Pyrimethanil Quinalphos Quintozene Simazine Sulfotep Tebuconazole Tecnazene Tefluthrin Terbutylazine Terbutryn Tetradifon Tetrachlorvinphos Tetramethrin Thiabendazole Tolclofos-methyl Tolyfluanid Triadimefon Triadimenol Trifloxystrobin Triazophos Trifluralin Vinclozolin (parent molecule) Zoxamide | | |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd) | <u>Chemistry Tests</u> (cont'd) <u>Pesticide Residues:</u> (cont'd) | | |



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| Fruit and Vegetables (excluding Dried Fruit) | Multi-residue screen and quantitative analysis: Acetamiprid Aldicarb Aldicarb sulfone Aldicarb sulfoxide Bendiocarb Butocarboxim Carbaryl Carbendazim Carbofuran Carbofuran 3-OH Chlorotoluron Cyazofamid Cyprodinil Diethofencarb Diuron Ethiofencarb Ethofumesate Fenamidone Fenhexamid Fenoxycarb Fenpropimorph Fenpyroximate Fenuron Imazalil Imidacloprid Iprovalicarb Isoproturon Lenacil Linuron Methabenzthiazuron Methomyl (including thiodicarb) Metoxuron Metsulfuron-methyl Monolinuron Monuron Oxamyl Pencyuron | AM/R/229 by LC-MS/MS using QuEChERS Extraction | A |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd) | <u>Chemistry Tests</u> (cont'd) <u>Pesticide Residues:</u> (cont'd) Multi-residue screen and quantitative analysis: (cont'd) | | |



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| Fruit and Vegetables (excluding Dried Fruit) (cont'd) | Phorate Propamocarb Propoxur Pyraclostrobin Quinmerac Spinosyn A/D (Spinosad), Spiroxamine Tebufenpyrad Thiabendazole Thiacloprid Thiamethoxam Tridemorph Triflurosulfuron-methyl | | |
| (fish and shellfish) | Malachite Green and Leucomalachite Green | AM/R/211 using HPLC | A |
| | Sudan red, Para Red and Butter Yellow Dyes | AM/R/244 using LC-MS/MS | A |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, DRINKS, PHARMACEUTICAL PRODUCTS, eg, CAPSULES, PASTILLES AND TABLETS, MEDICATIONS (restricted matrices specified as appropriate) | <u>Chemistry Tests</u> <u>Vitamins</u> Vitamin A (Retinol) Vitamin E (Alpha tocopherol) | AM/V/702 using HPLC based on Analyst, August 1985, based on Volume 11, 110 and Pure and Applied Chemistry, 1988, Volume 60, p878-892 | A |
| (Not pharmaceutical products) | Beta Carotene | AM/V/906 using HPLC | A |
| | Vitamin B3 complex (Nicotinic acid and Nicotinamide) | AM/V/751 using HPLC | A |
| | Vitamin B ₁ (Thiamine) Vitamin B ₂ (Riboflavin) | AM/V/703 using HPLC | A |
| ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, DRINKS, PHARMACEUTICAL PRODUCTS, eg, | <u>Chemistry Tests</u> (cont'd) <u>Vitamins</u> (cont'd) | | |



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| CAPSULES, PASTILLES AND TABLETS, MEDICATIONS (restricted matrices specified as appropriate) (cont'd) (Not pharmaceutical products or drinks) (Not vegetable products) (Premixes, Supplements, Tablets and Pastilles) (Premixes, Supplements, Tablets and Raw Materials) | Vitamin B ₆ (Pyridoxine) | AM/V/752 using HPLC | A |
| | Vitamin B ₁₂ (Cyanocobalamin) | AM/V/754, Biacore Instrumentation | A |
| | Vitamin B complex (Free Folic Acid) | AM/V/755 Biacore Instrumentation | A |
| | Vitamin C (Ascorbic acid) | AM/V/710 using HPLC | A |
| | Vitamin D ₂ & D ₃ (Cholecalciferol & Ergocalciferol) | AM/ V/707 using HPLC | A |
| | Vitamin D ₂ & D ₃ (Cholecalciferol & Ergocalciferol) | AM/V/723 using HPLC | A |
| | Vitamin E (Alpha tocopherol acetate) | AM/V/715 using HPLC | A |
| | Biotin | AM/V/753 using Biacore instrumentation | A |
| FOOD and FOOD PRODUCTS (including environmental swabs and dairy as specified in methods) | <u>Microbiological Tests</u> | Documented In-House Methods: | |
| | Enumeration: <i>Bacillus cereus</i> , presumptive | ESGM/M/319 using PEMBA | A, C, F, G |
| | <i>Clostridium perfringens</i> , presumptive and <i>Clostridium</i> spp | ESGM/M/310, using TSC agar based on BS EN ISO 7937:2004 | A, C, F, G |
| FOOD and FOOD PRODUCTS (including environmental swabs and dairy as specified in methods) (cont'd) | <u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) Coliforms, presumptive | ESGM/M/302 based on BS EN ISO 4832:2006 | A, C, F, G |



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| (including Animal Feeding Stuffs) (including mushroom casings, peat, sugar beet) (including soft drinks) | Enterococci/Faecal Streptococci presumptive | ESGM/M/314 based on BS 4285-3.11:1985 | A, C, F |
| | Enterobacteriaceae, presumptive | 1) Method ESGM/M/303 for the purpose of ABPR 2011 based on BS ISO 21528-2:2004 in accordance with Regulations EC 1069/2009 and 142/2011 2) Method ESGM/M/303 based on BS ISO 21528-2:2004 | A, G A, C, F, G |
| | <i>Escherichia coli</i> , presumptive | 1) ESGM/M/304 using TBX pour plate based on BS ISO 16649:Part 2:2001 2) ESGM/M/305, Client specified (TBX and membrane) based on BS ISO 16649:Part 1:2001 | A, C, F, G A, C, F, G |
| | Lactic acid bacteria, presumptive | ESGM/M/320 based on BS ISO 15214:1998 | A, C, F, G |
| | <i>Listeria monocytogenes</i> and other named <i>Listeria</i> species | ESGM/M/313 using BPW and Oxford Agar | A |
| | <i>Listeria</i> spp | ESGM/M/321 based on BE EN ISO 11290-2 | A, C, F, G |
| | Mesophilic aerobic and anaerobic spores | ESGM/M/316 | A, |
| <i>Pseudomonas</i> species and <i>Pseudomonas aeruginosa</i> | ESGM/M/312 based on BS 7857-1:1996 and BD ISO 13720:1995 | A, C, F, G | |
| <i>Staphylococcus aureus</i> , confirmed | ESGM/M/307 based on BS EN ISO 6888:Part 1:1999 | A, C, F, G | |
| FOOD and FOOD PRODUCTS (including environmental swabs and dairy as specified in methods) (cont'd) | <u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) | | |



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| (including soft drinks) (cont'd) | Total Viable Count: 3 days, 30 °C, 2 days, 30 °C 3 days, 22 °C 2 days, 37 °C | ESGM/M/300 based on BS EN ISO 4833:2003 | A, C, F, G |
| | Yeasts and Moulds: 5 days at 25 °C 5 days at 22 °C | 1) ESGM/M/308 using RBCA 2) BIO 092 using DG18 agar (high sugar products only) 3) ESGM/M/309 using OGYE | A, F, G C C |
| (including raw chicken carcass and portion rinse) | Detection: <i>Campylobacter</i> spp, confirmed | ESGM/M/500 based on BS EN ISO 10272:2006 using Preston Enrichment Broth | A, F |
| | <i>Escherichia coli</i> , presumptive | AM/M/304, based on 'The Manual', Oxoid, 1998 | A |
| | <i>Escherichia coli</i> O157 | AM/M/382 based on BS EN ISO 16654-1:2001 | A |
| | <i>Escherichia coli</i> | ESGM/561 customer specified method based on ISO/TS 16649-3:2005 | A, F |
| INFANT MILK FORMULAE | <i>Cronobacter</i> (formerly <i>Enterobacter) sakazakii</i> | PHARMM011 based on ISO/TS 22964:2006 (E) with confirmation by Biochemical test | E |
| INFANT MILK FORMULAE (cont'd) | <u>Microbiological Tests</u> (cont'd) | | |



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| (including mushroom casings, peat, sugar beet) | <i>Listeria monocytogenes</i> and other named <i>Listeria</i> species | 1) ESGM/M/522 based on ISO 11290-1:1997 and amendment 2004 using chromogenic agar | A, C, F, G |
| | | 2) ESGM/M/530 based on ISO 11290-1:1997 and amendment 2004 with detection using VIDAS (excluding milk and milk powders and garlic paste/puree or products containing garlic as the main component, as specified in the method) | C |
| | | 3) ESGM/M/521 customer specified using BLEB and Oxford Agar | G |
| | | 4) ESGM/M/524 by the Oxoid Precis Method | C, G |
| FOOD & FOOD PRODUCTS, ANIMAL FEEDS and ENVIRONMENTAL SWABS | <i>Listeria spp</i> and <i>Listeria monocytogenes</i> | | |
| (including swabs and dairy) | <i>Listeria monocytogenes</i> and other named <i>Listeria</i> species | ESGM/M/523 using RayAI method and DYNEX DS2 equipment | A, F |
| | Confirmation of <i>Listeria spp</i> and <i>monocytogenes</i> | ESGM/M/531 using oxidase catalase gram stain and biochemical tests | A, C, F, G |



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| <p>FOOD & FOOD PRODUCTS, ANIMAL FEEDS and ENVIRONMENTAL SWABS (cont'd)</p> <p>(including mushroom casings, peat, sugar beet, chocolate and chocolate confectionary, raw chicken carcass and portion rinse)</p> | <p><u>Microbiological Tests</u> (cont'd)</p> | | |
| | <i>Salmonella</i> spp | ESGM/M/511 based on BS EN ISO 6579:2002 | A, C, F, G |
| | <i>Salmonella</i> spp | ESGM/M/518 by the Oxoid Precip Method with confirmation by Biochemical test | C, G |
| | | ESGM/M/516 Easy Vidas | C |
| | <i>Salmonella</i> spp | ESGM/M/515 using RayAI OPTIMA method and DYNEX DS2 equipment | A, F |
| | <i>Salmonella</i> confirmation | ESGM/M/517 by oxidase, poly O and poly H antisera and biochemical tests (API) | A, C, F, G |
| | Detection: | | |
| (Animal Feeding Stuffs) | <i>Salmonella</i> spp (presumptive) | ESGM/M/511 for the purpose of ABPR 2011 based on BS EN ISO 6579:2002 in accordance with the Regulations (EC) 1069/2009 and 142/2011 | A, G |
| | <i>Staphylococcus aureus</i> | ESGM/M/562 based on BS EN ISO 6888-3 2003 | A, F |
| | <i>Vibrio parahaemolyticus</i> | ESGM/M/550 based on BS 5763-14 1991 (withdrawn) | A |
| POLLUTANTS, ATMOSPHERIC | <u>Microbiological Tests</u> | | |
| Examination of settle plates | Enumeration of TVC and/or Yeasts and moulds (confirmed) | ESGM/M/322 using RBCA and/or PCA | A, F |
| WATERS | <u>Microbiological Tests</u> | | |



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Testing performed by the Organisation at the locations specified

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|--|---|---------------|
| Raw and potable waters | Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 [SI 2000/3184]. The testing is in accordance with the Drinking Water Testing Specification (DWTS). | Documented In-House Procedures based on/ incorporating procedures in the HMSO publication "The Microbiology of Drinking Water - Methods for the Examination of Water and Associated Materials | |
| | Coliforms, presumptive and confirmed E coli, presumptive and confirmed | ESGM/M/107 using membrane filtration onto MLGA based on the MDW 2009, Part 4 | C |
| | Colony counts: 1 day, 37 °C 2 days, 30 °C 2 days, 37 °C 3 days, 22 °C | ESGM/M/100, pour plate using YEA based on the MDW 2007, Part 7 | C |
| | Enterococci/Faecal streptococci, presumptive and confirmed | ESGM/M/106 by membrane filtration based on the MDW 2010, Part 5 | C |
| | <i>Clostridium perfringens</i> , confirmed | ESGM/M/105 by membrane filtration using TSC based on the MDW 2010, Part 6 | C |
| | Sulphite-reducing <i>Clostridia</i> | ESGM/M/104 by membrane filtration using TSC based on the MDW 2010, Part 6 | C |
| | <i>Pseudomonas aeruginosa</i> , confirmed | ESGM/M/102 by membrane filtration using CN agar based on the MDW 2010, Part 8 | C |



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|--|---|---|---------------|
| WATERS (NON-DWTS) Raw, Potable, Bottled Mineral, Recreational, Wastewaters and Process (including soft drinks) | <u>Microbiological Tests</u> | Based on the MDW 2009: | |
| | Coliforms, presumptive Escherichia coli, presumptive | ESGM/M/107 using MLGA | A, C, F, G |
| | Coliforms, confirmed Escherichia coli, confirmed | ESGM/M/107 using MLGA | A, C, G |
| | | Documented in House Methods based on The Microbiology of Drinking Water 2002 (relevant sections in parentheses) | |
| | Colony counts: 1 day, 37 °C 2 days, 30 °C 2 days, 37 °C 3 days, 22 °C | ESGM/M/100, pour plate using YEA based on MDW 2007, Part 7, sub-part A | A, C, F, G |
| | Enterococci/Faecal streptococci, presumptive | ESGM/M/106 by membrane filtration based on MDW 2010, Part 5 | C, F, G |
| | Enterococci/Faecal streptococci, confirmed | ESGM/M/106 by membrane filtration based on MDW 2010, Part 5 | C, G |
| | <i>Clostridium perfringens</i> , (presumptive) | ESGM/M/105 by membrane filtration based on MDW 2010, Part 6, sub-part B | F |
| | <i>Clostridium perfringens</i> , confirmed | ESGM/M/105 by membrane filtration based on MDW 2010, Part 6, sub-part B | C |
| Sulphite-reducing <i>Clostridia</i> | ESGM/M/104 by membrane filtration using TSC based on MDW 2010, Part 6, sub-part A | C, F | |
| <i>Pseudomonas aeruginosa</i> , presumptive | ESGM/M/102 by membrane filtration using CN agar based on the MDW 2010, Part 8 | C, F, G | |



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|--|---|---|---------------|
| Bovine milk and blood serum | <u>Animal Health Tests</u> | | |
| | Detection of <i>Mycobacterium paratuberculosis</i> (Johne's Disease) antibodies in | ESGMAH004 using Pourquier ELISA | D |
| Bovine milk and blood serum | Detection of Bovine Viral Diarrhoea Virus antibodies milk and blood serum | ESGMAH005 using IDEXX HerdCheck BVDV Ab IELISA | D |
| WATERS Potable, Recreational, Process, environmental samples, including swabs | <u>Microbiological Tests</u> | | |
| | Isolation of <i>Legionella</i> spp, presumptive. Identification of <i>Legionella</i> spp: <i>Legionella pneumophila</i> sg 1, 2-14 and species | BIO 114 based on BS 6068:Section 4.12:1998 | C |
| BACTERIAL CULTURES | <u>Microbiological Tests</u> | | |
| | Identification of: | In-House Methods based on the use of Analytical Profile Index (API Biomerieux) | |
| | <i>Enterobacteriaceae</i> | BIO 082 | C |
| MILK | Non enteric Gram negatives | BIO 081 | C |
| | <i>Listeria</i> spp | BIO 083 | C |
| MILK | <u>Chemical/Physical Tests</u> | | |
| | Fat, Protein, Lactose, Somatic Cell Count, Freezing Point Depression | ESGM C002 - using Combifoss 6000 (Milkoscan)/Fossomatic 5000 based on ISO 1336-3:1997 | D |
| | Freezing Point Depression | ESGM C003/C101 based on ISO 5764:2002 using Cryoscope Method | D |
| MILK AND CREAM | <u>Chemical/Physical Tests</u> | | |
| | Antibiotics | 1) ESGM C005 Detection of via Delvotest (SP/MCS kit) 2) ESGM C006 Detection of via Betastar Betalactam Assay | D D |



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| MILK AND CREAM (cont'd) | <u>Chemical/Physical Tests</u> (cont'd) | | |
| | Phosphatase Activity | ESGM C008 using Fluorophos | D |
| | Phosphatase | ESGM C007 by the Aschaffenburg and Mullen (A&M) Method | F |
| DAIRY PRODUCTS | <u>Chemical/Physical Tests</u> | | |
| | Fat content | ESGM C011 based on Gerber method BS 696:Parts 1 and 2:1989 | F |
| | Fat content | ESGMC018 | F |
| Dairy Products | Determination of Fat | ESGMC018 by Rose Gottlieb | F |
| | Salt content | ESGM C017 (Chloride Meter) | F |
| | Fat in dry matter (by calculation) | ESGM-C015/ESGM C011 | F |
| | pH | ESGM-C014 using pH meter | F |
| (Cheese only) | Moisture content (and dry matter, by calculation) | ESGM-C015 (microwave method) | F |
| (Cheeseonly) | Moisture content (and dry matter, by calculation) | ESGM-C016 by oven drying | F |
| PHARMACEUTICAL PRODUCTS - FINISHED AND RAW MATERIALS | <u>Microbiology Tests</u> | In house methods based on European Pharmacopoeia | |
| | Detection: | | |
| | Clostridia spp | ESGM/M/700 | E |
| | Pseudomonas spp | | |
| | Salmonella spp | | |
| | Staphylococcus aureus | | |
| | Enterobacteriaceae Escherichia coli | | |
| | Bacterial Endotoxin | In-house method PHARM-M008 based on the Gel Clot Assay | E |



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| PHARMACEUTICAL PRODUCTS - FINISHED AND RAW MATERIALS (cont'd) | <u>Microbiology Tests</u> (cont'd) | In house methods based on European Pharmacopoeia | |
| | Enumeration: | | |
| | Total Viable Count (including fungi, yeasts and moulds) | ESGM/M/700 | E |
| PURIFIED WATER and waters for injection (including endoscopy waters and washer disinfectant rinse waters) | Preservative Efficacy Test | AM/M/380 | E |
| | <u>Microbiology Tests</u> | | |
| PURIFIED WATERS | Total Viable Count | AM/M/362 in house method based on European Pharmacopoeia and HTM 2030 NHS guideline where specified | E |
| PURIFIED WATERS (including endoscopy waters) and WATER FOR INJECTION | Total Viable Count | BIO 095 | C |
| PURIFIED WATERS (including endoscopy waters) and WATER FOR INJECTION | <u>Chemical Tests and Physical Tests</u> | | |
| | Acidity | Documented In-House Method CHEM 123 based on current BP, EP, USP qualitative analysis and HTM 2030/2031 NHS guidelines where specified | E |
| | Alkalinity | | |
| | Aluminium | | |
| | Ammonium | | |
| | Calcium | | |
| | Calcium and Magnesium (hardness) | | |
| Character/Appearance/particulate matter (visual assessment) | | | |
| Carbon dioxide | | | |
| Chloride | | | |
| Nitrate | | | |
| Sulphate | | | |
| | Heavy metals - expressed as lead | Documented In-House Method CHEM 123 based on current BP, EP and USP qualitative analysis | E |
| | Oxidisable substances | Documented In-House Method CHEM 123 based on current BP, EP and USP qualitative analysis | E |



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|---|--|---|---------------|
| PURIFIED WATERS (including endoscopy waters) and WATER FOR INJECTION (cont'd) | <u>Chemical Tests and Physical Tests</u> | | |
| | <u>Quantitative Analysis:</u> | | |
| | Organic Carbon: Total | CHEM 125 based on current USP/BP/EP | E |
| | Conductivity | CHEM 128 based on current USP/BP/EP and HTM 2030/2031 NHS guidelines | E |
| | pH | CHEM 022 based on current USP/BP/EP and HTM 2030/2031 NHS guidelines | E |
| DISINFECTANTS, ANTISEPTICS, BIOCIDES | Total Solids/Residue on Evaporation | Documented In-House Methods CHEM 037 based on current BP/EP methods and HTM 2030/2031 NHS guidelines | E |
| | <u>Microbiological Testing</u> | Documented in-house methods based on BS EN standard methods in full or with customer specified parameters | |
| | Bacterial quantitative suspension test for food, industrial, domestic and institutional applications | PHARM-M012 based on BS EN 1276:2009 | E |
| | Fungal quantitative suspension test for food, industrial, domestic and institutional applications | PHARM-M013 based on BS EN 1650:2008 | E |
| | Bacterial spore quantitative suspension test for food, industrial, domestic and institutional applications | PHARM-M014 based on BS EN 13704:2002 | E |
| | Quantitative surface test for food, industrial, domestic and institutional applications | PHARM-M015 based on BS EN 13697:2001 | E |
| END | | | |