


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|--|--|
|  <p>UKAS TESTING</p> <p>1625</p> <p>Accredited to ISO/IEC 17025:2017</p> | <p>MS Laboratories Ltd</p> <p>Issue No: 042 Issue date: 19 November 2021</p> | |
| | <p>33 Sanders Road Finedon Road Industrial Estate Wellingborough Northants NN8 4NL</p> | <p>Contact: Mr S Shah Tel: +44 (0)1933 276668 Fax: +44 (0)1933 273841 E-Mail: mailbox@msslabs.co.uk Website: www.msslabs.co.uk</p> |
| <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 |
|---------------------------|--|--|
| FOOD AND FOOD PRODUCTS | <p><u>Chemical Tests</u></p> <p>Ash</p> <p>Calculated values – Total Carbohydrate Available Carbohydrates Added water Energy values Lean meat Apparent total meat</p> <p>Dietary Fibre</p> <p>Total Fat</p> <p>Fatty acid profile</p> <p>Moisture</p> <p>Nitrogen/Protein</p> <p>Salt content</p> <p>Sodium/Salt</p> | <p>Documented In-House Methods:</p> <p>CTM-03 based on BS 4401:Part 1:1998 ISO 936:1998</p> <p>CTM-07 by calculation using analytical data</p> <p>CTM-11 by AOAC 991.43</p> <p>CTM-06 In house method using acid hydrolysis and solvent extraction</p> <p>CTM-12 by GC/FID</p> <p>CTM-02 based on BS 4401:Part 3:1997 ISO1442:1997</p> <p>CTM-09 by DUMAS</p> <p>CTM-04 from chloride determination based on Pearson's Composition and Analysis of Foods - 9th Edition 1991</p> <p>CTM-10 using Flame Photometry</p> |



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| FOOD AND FOOD PRODUCTS (cont'd) | <u>Chemical Tests</u> (cont'd) Total Sugars: Glucose Galactose Fructose Sucrose Lactose Maltose Water Activity (Aw) <u>Allergen Tests</u> | Documented In-House Methods: CTM-13 by HPLC with RI detection CTM-08 using water activity meter |
| FOOD AND FOOD PRODUCTS | Quantitative Determination of Gluten | CTM-14 using r-biopharm Ridascreen Gliadin test kit |
| ENVIRONMENTAL SWABS | <u>Microbiological Tests</u> Enumeration: Presumptive Coliforms Presumptive Enterobacteriaceae <i>Escherichia coli</i> (β -glucuronidase-positive) Coagulase positive Staphylococci, including <i>Staphylococcus aureus</i> Total Aerobic Colony Count Yeasts and Moulds | Documented In-House Methods: MTM-04 based on BS ISO 4832:2006 MTM-10 based on BS ISO 21528-2:2017 MTM-18 based on BS ISO 16649-2:2001 MTM-03 based on BS EN ISO 6888-1:1999+A2:2018 Confirmation by Staphylase and coagulase tests MTM-08 In-House Method using PCA pour plate incubated at 30°C for 48h MTM-26 based on BS ISO 21527-1:2008 |



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| ENVIRONMENTAL SWABS (cont'd) | <u>Microbiological Tests (cont'd)</u> Detection: <i>Listeria monocytogenes</i> and <i>Listeria</i> spp <i>Salmonella</i> spp | Documented In-House Methods: 1) MTM-09 based on BS EN ISO 11290-1:2017 confirmation by biochemical tests or VITEK2 2) MTM-29 by VIDAS UP confirmation by biochemical tests or VITEK2 3) MTM-38 using Less Plus Broth selective enrichment and Pinnacle LCA with confirmation by biochemical tests or VITEK2 1) MTM-01 based on BS EN ISO 6579-1:2017+A1 2020 confirmation by biochemical tests and serology or VITEK2 2) MTM-28 by VIDAS UP confirmation by biochemical tests and serology or VITEK2 3) MTM-39 using supplemented BPW and SALMA selective medium with confirmation by biochemical tests or VITEK2 |
| FOOD AND FOOD PRODUCTS Ready to Eat Foods, Meat and meat products, including raw meat, Herbs and spices and dry ingredients and flavourings and Dairy products, unless specified | <u>Microbiological Tests</u> Enumeration: Presumptive <i>Bacillus cereus</i> Presumptive <i>Clostridium perfringens</i> Presumptive Coliforms | Documented In-House Methods: (In accordance with ISO-6887 Parts 1-5 special preparation stages as required) MTM-37 based on BS EN ISO 7932:2004 +A1 2020 MTM-06 based on BS EN ISO 7937:2004 MTM-04 based on BS ISO 4832:2006 |



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| FOOD AND FOOD PRODUCTS (cont'd) Ready to Eat Foods, Meat and meat products, including raw meat, Herbs and spices and dry ingredients and flavourings and Dairy products, unless specified | <u>Microbiological Tests</u> (cont'd) | Documented In-House Methods: (In accordance with ISO-6887 Parts 1-5 special preparation stages as required) (cont'd) |
| | Enumeration: (cont'd) | |
| | Presumptive Enterobacteriaceae | MTM-10 based on BS ISO 21528-2:2017 |
| | Presumptive Enterococci | MTM-11 based on BS 4285:Section 3.11:1985 |
| | <i>Escherichia coli</i> (β-glucuronidase-positive) | MTM-18 based on BS ISO 16649-2:2001 |
| | Presumptive Lactic Acid Bacteria | MTM-22 based on BS ISO 15214:1998 |
| | <i>Listeria monocytogenes</i> and <i>Listeria</i> spp | MTM-21 based on BS EN ISO 11290-2:2017 |
| | Presumptive <i>Pseudomonas</i> spp | MTM-23 based on BS EN ISO 13720:2010 |
| | Coagulase positive Staphylococci, including <i>Staphylococcus aureus</i> | MTM-03 based on BS EN ISO 6888-1:1999+ A2 :2018 Confirmation by Staphylase and coagulase tests |
| | Total Aerobic Colony Count | MTM-08 based on BS EN ISO 4833-1: 2013 (30°C / 72 h) |
| | Total Aerobic Colony Count | MTM-08 In-House Method using PCA pour plate incubated at 30°C for 48h |
| | Yeasts and Moulds | MTM-31 based on AOAC Official Method 2014.05 using 3M Rapid Yeast and Mould Petrifilm – Client Specified |
| Food products with water activity >0.95 | Yeasts and Moulds | MTM-26 based on BS ISO 21527-1:2008 |
| Food products with water activity ≤0.95 | Yeasts and Moulds | MTM-27 based on BS ISO 21527-2:2008 |



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| <p>FOOD AND FOOD PRODUCTS (cont'd) Ready to Eat Foods, Meat and meat products, including raw meat, Herbs and spices and dry ingredients and flavourings and Dairy products, unless specified</p> | <p><u>Microbiological Tests</u> (cont'd)</p> <p>Detection:</p> <p><i>Escherichia coli</i></p> <p><i>Escherichia coli</i> O157</p> <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp</p> <p><i>Salmonella</i> spp</p> | <p>Documented In-House Methods: (In accordance with ISO-6887 Parts 1-5 special preparation stages as required) (cont'd)</p> <p>MTM-14 based on BS ISO 7251:2005</p> <p>MTM-30 by VIDAS UP</p> <p>1) MTM-09 based on BS EN ISO 11290-1:2017 confirmation by biochemical tests or VITEK2</p> <p>2) MTM-38 using Less Plus Broth selective enrichment and Pinnacle LCA with confirmation by biochemical tests or VITEK2</p> <p>1) MTM-01 based on BS EN ISO 6579-1:2017 +A1:2020 confirmation by biochemical tests and serology or VITEK2</p> <p>2) MTM-28 by VIDAS UP confirmation by biochemical tests and serology or VITEK2</p> <p>3) MTM-39 using supplemented BPW and SALMA selective medium with confirmation by biochemical tests or VITEK2</p> <p>4) MTM-40 using BPW HQ + OBOP-S supplement and CASE selective media, confirmation by Microgen Latex kit and VITEK 2 (MTM-32)</p> |
| <p>Ready to Eat Foods, Meat and meat products, including raw meat, Herbs and spices and dry ingredients and flavourings Dairy products, and environmental swabs</p> <p>Ready to Eat Products including Cooked Meats</p> | <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp</p> | <p>MTM-29 by VIDAS UP, confirmation by biochemical tests or VITEK2</p> |



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| WATERS | <u>Microbiological Tests</u> | Documented In-House Methods: |
| Drinking water and recreational waters (man made) | Detection: Coliforms and β -glucuronidase-positive <i>Escherichia coli</i> | MTM-16 using IDEXX Colilert system |
| Drinking water | Enumeration: Total Aerobic Colony Count at 22 °C and 37 °C | MTM-15 based on The Microbiology of Drinking Water Part 7 2020 |
| Recreational waters (man made) | Total Aerobic Colony Count | MTM-15 using YEA pour plate incubated at 37°C for 24h |
| Drinking water, Recreational waters (man made) | Presumptive <i>Clostridium perfringens</i> | MTM-35 based on The Microbiology of Drinking Water Part 6 2021 |
| Drinking water | Presumptive Enterococci | MTM-36 based on The Microbiology of Drinking Water Part 5 2012 |
| Drinking water, Recreational waters (man made) | Presumptive <i>Pseudomonas aeruginosa</i> | MTM-34 based on The Microbiology of Drinking Water Part 8 2015 |
| END | | |