**Issue date: 25 March 2025**
**Valid Until: -**

**NO: SAMM 1122**



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| **LABORATORY LOCATION/ CENTRAL OFFICE:** | Baden Research and Testing Lab (Asia PAC) Sdn. Bhd.<br>Lot 29, Lorong IC KKIP Industrial Zone 2 Jalan Sepanggar,<br>Menggatal 88400 Kota Kinabalu Sabah , 88400,<br>SABAH<br>MALAYSIA |
| **ACCREDITED SINCE :** | 25 MARCH 2025 |
| **FIELD(S) OF TESTING:** | CHEMICAL |

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

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| **FIELD(S) OF TESTING :** | CHEMICAL, |

**SCOPE OF TESTING : CHEMICAL**

| **Material / Product Tested** | **Type Of Test / Properties Measured / Range Of Measurement** | **Standard Test Methods / Equipment / Techniques** |
|---|---|---|
| Food | None | Based on Porcine Trace ® Rapid |
| | None | None |
| | None | None |
| | None | None |
| | Determination of Cholesterol in | JKM F 1208: In-house based on |
| | Total Acidity in Food by Titration | JKM F 0935 In-house Method based |
| | Determination of Melamine in | JKM F 1302 In-house Method based |
| | Determination of Total Arsenic in | JKM F 0509 In-house Method based |
| | Net Weight | JKM F 0944 In-house Method based |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Determination of Vitamin C | In-house method JKM F 1211 based |
| | Determination of Vitamin A | In-house method JKM F 1212 based |
| | Determination of Water Activity | JKM M 3082 |
| | Yeast and Mould | JKM M 3084 -" Enumeration of Yeast |
| | Detection and Enumeration of | JKM B 0201 |
| | Coliform Counts (Petrifilm) | JKM M 3053 AOAC, 21* Edition, 2019 (991.14) -" |
| | Detection of Cronobacter | JKM M 3083 |
| | Extraction of Food Samples | JKM B 0105 DNA Extraction and |
| | Sequencing of mitochondrial | JKM B 0310 Speciation of animal |
| | Foreign Matter and Extraneous | JKM B 0405 Determination of |
| | Identification of Insects/Foreign | JKM B 0404. Determination of |
| | Identification of Foreign Matter in | JKM B 0402. Identification of Rodent |
| | Determination of the Origin of | JKM B 0403. Determination of Origin |
| | None | None |
| | None | None |
| | None | None |
| | None | None |
| | None | None |
| | None | In-house method, WI-TEC-M001, |
| | None | None |
| | None | In-house method, WI-TEC-M014, |
| | None | None |
| | None | None |
| | Pesticides | None |
| | None | None |
| | None | None |
| | None | None |
| | None | AOAC 990.12,19" Edition 2012 |
| | None | In-house method, WI-TEC-M015M, |
| | Fat | In-house Method SOP-0217-1008 |
| | Total Sugar (Titration) | AOAC 968.28, Edition, 2005 |
| | Vitamin C | In-house Method SOP-0217-1015 by |
| | Energy as Calories | In-house Method SOP-0217-1032 |
| | Shigella | FDA/BAM Chapter 6, Feb 2013 |
| | None | None |
| | None | None |
| | Tin (Sn) | In-house Method C/FOD/029 |
| | None | None |
| | Ascorbic Acid (Vitamin C) | In-house Method C/FOD/003 |
| | None | None |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | None | None |
| | None | None |
| | Staphylococcus aureus -” Most Probable Number | AOAC 987.09 |
| | Enumeration of Mesophilic Lactic Acid | ISO 15214: 1998 |
| | None | None |
| | Detection & Enumeration of Coliform | AS 5013.3 - 2022 |
| | Enumeration of Coliform | FDA-BAM Chapter 4 (I.G) |
| | Detection & Enumeration of Escherichia coli | AS 5013.15 -” 2006 |
| | Enumeration of Escherichia coli | FDA-BAM Chapter 4 (I.G) |
| | Detection of Salmonella spp. | AS 5013.10 - 2009 |
| | Enumeration of Yeast and Molds | FDA -” BAM Chapter: 18 |
| | Detection of Listeria monocytogenes | In-house Method M/FOD/010 based on FDA -” BAM Chapter 10:2011 |
| | Enumeration of Bacillus cereus | In-house Method M/FOD/011 based on FDA -” BAM Chapter 14:2012 |
| | Enumeration of Fecal Coliform | CMME of Foods - Chapter 8.8 |
| | Clostridium perfringens Count | ISO 7937:2004 |
| | Tin | None |
| | Sugar Profile: | In-house method SGS-TM-FOOD-104 |
| | Folic acid | In-house method SGS-TM-FOOD-106 |
| | Metals Contaminants Arsenic, As Lead, Pb Copper, Cu | In-House Method, SGS-WI-LAB-028 based on AOAC 986.15, 975.03, 922.02, 2011.14 & 2015.01, APHA 3120B and APHA 3125B |
| | Total Sugars | In-house method, SGS-TM-FOOD- |
| | Water activity | In-house method, SGS-TM-FOOD- |
| | None | None |
| | Vitamin A | In-house method SGS-TM-FOOD-050 based on Bull. Dept. Med Sci, Vol 37, No. 1 Jan -” March 1995, |
| | Total Aerobic Count | AOAC 989.10: 2005 & AOAC |
| | Listeria monocytogenes | In-house method, SGS-TM-MICR- |
| | None | None |
| | Porcine DNA | In-house method, SGS-TM-BIOT- |
| | Total Plate Count | AS 1766.2.1-1991 |
| | Listeria monocytogenes | ISO 11290-1:2017 (E) / Detection |
| | Salmonella spp. | ISO 6579:2017 (E) / Detection |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Bacillus cereus | ISO 7932:2004 (E) / Enumeration |
| | Bacillus cereus | ISO 21871:2006 (E) / Detection and |
| | Vibrio parahaemolyticus | ISO/TS 21872-1:2017(E) / Detection |
| | Escherichia coli | ISO 7251:2005 (E) / Detection and |
| | E. Coli 0157 | ISO 16654:2001(E) / Detection |
| | Yeast and Mould Count | In-house method Ref. No. MOH: |
| | Aerobic Plate Count | In-house method based on AOAC |
| | Coliform | ISO 4831:2006 (E) / Detection and |
| | Mesophilic Lactic Acid Bacteria | ISO 15214:1998 (E) / Enumeration |
| | DNA Extraction | In-house Method, Ref. No. MOH |
| | Benzoic acid | In-house Method, Ref. No. MOH: |
| | Saccharin | In-house Method, Ref. No. MOH: |
| | Sulphur Dioxide | In-House Method, Ref. No. MOH: |
| | Boric acid | In- House Method, Ref. No. MOH: |
| | Formaldehyde | In-house Method, Ref. No. MOH: |
| | Egg Allergen ? Qualitative | In-house Method, Ref. No. MOH: |
| | Peanut Allergen ? Qualitative | In-house Method, Ref. No. MOH: |
| | Milk Allergen- Qualitative | In-house Method, Ref. No. MOH: |
| | Gliadin Allergen ? Qualitative | In-house Method, Ref. No. MOH: |
| | Soy Allergen- Qualitative | In-House Method Ref. No. MOH |
| | Crude Fibre | AOCS Ba 6-84 |
| | None | Microbiology of food and animal |
| | None | feeding stuffs- Horizontal method for |
| | Listeria monocytogenes | the detection and enumeration of |
| | Listeria monocytogenes | Listeria monocytogenes- Part 1: |
| | Listeria monocytogenes | Detection Method |
| | Listeria monocytogenes | Method No: MOH |
| | Listeria monocytogenes | AOAC Official Method 991.14 3M-„¢ |
| | Escherichia coli / Coliform | Petrifilm-„¢ E.coli / coliform count Plates |
| | Escherichia coli / Coliform | Method No: MOH K03-203 |
| | Escherichia coli / Coliform | AOAC Official Method 990.12 3M-„¢ |
| | Aerobic Count Plates | Petrifilm-„¢ Aerobic Count Plates |
| | Aerobic Count Plates | Method No: MOH |
| | Aerobic Count Plates | AOAC Official Method 2003.07 |
| | Staphylococcus aureus | 2003.08, 2003.11 3M-„¢ Staph Express Count Plate |
| | Staphylococcus aureus | Method No: MOH K03-205 |
| | Staphylococcus aureus | AS/NZS 1766.2.9:1997 Examination |
| | Staphylococcus aureus | for specific organisms- Vibrio |
| | Vibrio parahaemolyticus | parahaemolyticus of Australian |
| | Vibrio parahaemolyticus | Standard |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Vibrio parahaemolyticus | Method No: MOH K03-310 |
| | Vibrio parahaemolyticus | ISO 7932, Third Edition 2004-06-16 |
| | Vibrio parahaemolyticus | Microbiology of food and animal |
| | Vibrio parahaemolyticus | feeding stuffs -” Horizontal method |
| | Bacillus cereus | for the enumeration of presumptive |
| | Bacillus cereus | Bacillus cereus -” Colony- count |
| | Bacillus cereus | technique at 30°C |
| | Bacillus cereus | Method No: MOH (1) |
| | Bacillus cereus | ISO/TS 22964:2006 (E) |
| | Enterobacter sakazakii | IDF/RM 210:2006 (E) -” Detection of Enterobacter sakazakii |
| | Enterobacter sakazakii | Method No: MOH K03-115 |
| | Enterobacter sakazakii | ISO 16654:2001 (E) -” Horizontal |
| | E. coli 0157 | method for the detection of Escherichia coli 0157 |
| | E. coli 0157 | Method No: MOH |
| | Coagulase positive | ISO 6888-1:1999/Amd.1:2003 (E) |
| | staphylococci | Method No: MOH KO3-105 (1) |
| | Vibrio Species other than cholerae | other than Vibrio parahaemolyticus |
| | Vibrio Species other than cholerae | and Vibrio cholera |
| | Vibrio Species other than cholerae | Method No: MOH KO03-111 (2) |
| | Vibrio Species other than cholerae | ISO 10272 -” 1: 2006 (E) Horizontal |
| | Vibrio Species other than cholerae | Method for Detection and |
| | Camphylobacter spp | Enumeration of Camphylobacter spp. -” Part 1: Detection Method |
| | Camphylobacter spp | Method No: MOH (1) |
| | Camphylobacter spp | ISO 11290-2: 1998 / Amd. 1:2004 (E) |
| | Camphylobacter spp | Horizontal Method for Detection and |
| | Camphylobacter spp | Enumeration of Listeria |
| | Listeria monocytogenes | Monocytogenes Part 2 = Enumeration Method, Amendment 1 : |
| | Listeria monocytogenes | Modification of enumeration Medium |
| | Listeria monocytogenes | Method No: MOH (1) |
| | Boric Acid | E03-003 The Determination of |
| | Water soluble synthetic food | Water Soluble Synthetic Food |
| | colour (see Appendix |) | Colour in Food by Paper |
| | colour (see Appendix |) | Chromatography and UV/ V15 |
| | colour (see Appendix |) | spectrophotometer |
| | colour (see Appendix |) | In -” House Method, Ref. No. MOH |
| | Total Plate Count (TPC) | FDA Food and Drug = |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Determination of Boric acid in Food | FQL-TM-FA205 In-House Method |
| | by UV-Vis Spectrophotometer | based International Food on |
| | by UV-Vis Spectrophotometer | Research Journal 17: 1107-1112 |
| | by UV-Vis Spectrophotometer | (2010) |
| | Total Plate Count in Food by | AOAC Official Method 990.12 |
| | using 3M Petrifilm Aerobic Count | None |
| | Plate | None |
| | Enumeration of Escherichia Coli | AOAC Official Method 991.14 |
| | in Food by using 3M Petrifilm | None |
| | Escherichia Coli/Coliform Count | None |
| | Plates | None |
| | Enumeration of Coliform in Food | AOAC Official Method 991.14 |
| | by using 3M Petrifilm Escherichia | None |
| | Coli/Coliform Count Plates | None |
| | Enumeration of Staphylococcus | AOAC Official Method 2003.07 |
| | Aureus in Food by using 3M | None |
| | Petrifilm Staph Express Count | None |
| | Plates | None |
| | Detection of Bacillus Cereus in | Compact Dry -œNissui-• Bacillus |
| | Food | Cereus |
| | Detection of Salmonella in Food | Bacteriological Analytical Manual, |
| | Detection of Salmonella in Food | Chapter 5, Salmonella |
| | Detection of Salmonella in Food | AOAC Official Method of Analysis |
| | by using 3M Petrifilm Salmonella | 2014.1 |
| | Express System | None |
| | Salmonella spp. | ISO 6579-1:2017 |
| | Analysis of OrganophosphorusMethod: AOAC 2007.01<br>Analysis of Organophosphorus | Analysis of Organophosphorus |
| | Total Plate Count (TPC) | FDA Food and Drug = |
| | Aerobic Plate Count | AOAC Official Method 990.12 Aerobic |
| | Bacillus cereus | ISO 7932:2004 (E) Microbiology of Food |
| | Yeast and Mold | AOAC Official Method 2014.05 |
| | Enumeration of | MOH Based on AOAC |
| | Enumeration of Mesophilic | MOH MMEF Part 4 Section |
| | Campylobacter spp | MOH (1): ISO 10272- |
| | Gram Negative Pathogens | In-house Method, Ref. No. MOH RO3- |
| | Boric Acid | In-house Method, Ref. No. MOH |
| | Water Soluble Colours | In-house Method, Ref. No. MOH |
| | Moisture | In-house Method Ref. No. MOH J03- |
| | Ash | MOH Determination Of Ash |
| | 1) Antimoni | MOH The Determination of |

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**Valid Until: -**

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| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Water Activity | In-House Method MOH J03-049: |
| | Soluble Solid | In-House Method MOH J03-018: |
| | Mercury | In-House Method MOH H03-015: |
| | Acrylamide | In-House Method MOH NO3-015: |
| Processed Meat / Canned | Test for Porcine Meat | In-house Method BRL-LAB-CT-01 |