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|                                                                                   |                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LABORATORY LOCATION/<br/>CENTRAL OFFICE:</b>                                   | BP Food Testing Sdn Bhd<br>Lot 2, Jalan Pendaftar U1/54, Section U1, Temasya @Glenmarie,<br>40150 Shah Alam. , 40150,<br>SELANGOR<br>MALAYSIA |
|  |                                                                                                                                               |
| <b>ACCREDITED SINCE :</b>                                                         | 24 FEBRUARY 2005                                                                                                                              |
| <b>FIELD(S) OF TESTING:</b>                                                       | CHEMICAL<br>MICROBIOLOGICAL                                                                                                                   |

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).

|                              |                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>CENTRAL LOCATION:</b>     | BP Food Testing Sdn Bhd<br>Lot 2, Jalan Pendaftar U1/54, Section U1, Temasya @Glenmarie,<br>40150 Shah Alam. , 40150,<br>Selangor |
| <b>FIELD(S) OF TESTING :</b> | CHEMICAL, MICROBIOLOGICAL                                                                                                         |

**SCOPE OF TESTING : CHEMICAL**

| Material / Product Tested                             | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|-------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| (meat & Shrimp)                                       | Chloramphenicol                                           | In-house Method BPFT/013-ELISA                 |
| (meat, Shrimps, Liver, Fish & Animal Feed & Pet Food) | Nitrofurantoin                                            | In-house Method BPFT/014-ELISA                 |
| Beverages & Perfumes                                  | Total Phosphorus                                          | AOAC 965.17 (2000)                             |
|                                                       | Alcohol Test                                              | In-house Method: BPFT/005/<br>Direct           |
| Environmental                                         | Listeria monocytogenes                                    | HiMotility-„¢ Biochemical Kit                  |
|                                                       | pH                                                        | ASTM D 1293-18                                 |
|                                                       | None                                                      | None                                           |
|                                                       | pH                                                        | ASTM D 1293-18                                 |
|                                                       | None                                                      | None                                           |
|                                                       | None                                                      | None                                           |
|                                                       | PH value at 25 °C                                         | *APHA 4500-H* B, 2005                          |

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| Material / Product Tested      | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques    |
|--------------------------------|-----------------------------------------------------------|---------------------------------------------------|
|                                | Iron (as Fe), mg/L                                        | *APHA 3111 B, 2005                                |
|                                | Oil and grease                                            | *APHA 5520 B, 2005                                |
|                                | Turbidity                                                 | APHA 2130B, 2017                                  |
|                                | Metals                                                    | APHA 3030 F and APHA 3120 B                       |
|                                | None                                                      | on APHA 9222 J                                    |
|                                | None                                                      | on Colilert Test Kit notes, IDEXX                 |
|                                | None                                                      | None                                              |
|                                | None                                                      | None                                              |
|                                | Aerobic Plate Count                                       | CMMEF Chapter 3; 1992 & FDA/                      |
|                                | None                                                      | None                                              |
|                                | None                                                      | None                                              |
| Food Processing                | None                                                      | None                                              |
| Foods & Beverages              | Chloride calculated as Sodium                             | IHM LWII-CT42-001 based on                        |
|                                | Cholesterol                                               | IHM LWII-CT27-001 based on                        |
|                                | Reducing Sugar                                            | IHM LWII-CT28-001 based on                        |
|                                | Vitamin D3                                                | IHM LWII-CT26-001 based on                        |
| Foodstuff                      | Crude Protein                                             | MS 1194:1991                                      |
|                                | Fat                                                       | In-house Method: BPFT/003 by                      |
|                                | Benzoic Acid                                              | In-house Method: BPFT/001 based                   |
| Meat And Meat Products,        | None                                                      | 2567:2004 and BAM Chapter 6                       |
|                                | Clostridium perfringens                                   | CMMEF, 4". Edit. Chap 34 (2001)                   |
| Sauces                         | Total Nitrogen                                            | MS 1120.1988                                      |
|                                | Acidity                                                   | MS 1120: 2004                                     |
|                                | None                                                      | None                                              |
|                                | None                                                      | None                                              |
|                                | Salt (as Sodium Chloride)                                 | MS 1120:2004                                      |
|                                | None                                                      | Based on GB 5009.4-2016                           |
|                                | Total Plate Count                                         | In-house method LWM 3 based on AOAC 966.23 (2007) |
|                                | Acidity                                                   | MS1120:2004                                       |
|                                | None                                                      | None                                              |
| Solid Food                     | Total Dietary Fibre                                       | IHM LWII-CT34-001 based on                        |
|                                | None                                                      | None                                              |
| Whole Egg) Foods, Cereal, Milk | (AOZ Metabolite)                                          | Kit Method                                        |
|                                | Total Aflatoxin                                           | In-house Method BPFT/022-                         |

## SCOPE OF TESTING : MICROBIOLOGICAL

| Material / Product Tested                          | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|----------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| (meat & Meat Products, Poultry, (solid And Liquid) | Standard Plate Count                                      | AS 1766.2.1 1991                               |
| (water Intended For Drinking                       | pH                                                        | Compendium of Methods for the                  |
|                                                    | (Pour Plate Method)                                       | None                                           |

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| Material / Product Tested                       | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|-------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| 1. Food Contact Surface                         | Total Bacteria Count                                      | Compendium of Methods for the                  |
| 2. Air Sampling                                 | i) Total Bacteria Count                                   | Sedimentation Methods                          |
| And Food Preparation Purposes, Fresh Water Used | Coliforms (MPN)                                           | AS 4276.4- 1995                                |
| Butter,                                         | Vibrio parahaemolyticus                                   | AS/NZS 1766.2.9: 1997                          |
| Cereal Products,                                | Shigella spp.                                             | IHM:BPFT 028 based on ISO                      |
| Cheese,                                         | None                                                      | None                                           |
| Concentrate Juices,                             | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
| Crustaceans And Mollusks,                       | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
| Cultured Dairy Products, Liquid Milks & Creams, | staphylococci                                             | None                                           |
|                                                 | Salmonella                                                | AS 1766.2.5 1991                               |
|                                                 | Bacillus cereus                                           | AS 1766.2.6 1991                               |
| Eggs & Eggs Products,                           | Coagulase-positive                                        | AS 1766.2.4 1994                               |
| Environment                                     | None                                                      | None                                           |
| Fish,                                           | None                                                      | (2018)                                         |
|                                                 | None                                                      | None                                           |
| Food, Ingredients And Foods                     | Listeria spp.                                             | AOAC Official Method 997.03                    |
|                                                 | None                                                      | Australian Standard                            |
|                                                 | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
|                                                 | Alcohol Test                                              | IHM LWII-CT24-001 based on                     |
|                                                 | Alcohol Test                                              | IHM LWII-CT25-001 based on                     |
|                                                 | Free 3-monochloropropane-1 ,2- Determination of FAME      | IHM LWII-CT35-001 based on                     |
|                                                 | Pesticide Residues                                        | IHM LWII-CT29-001 based on                     |
|                                                 | Pesticide Residues                                        | None                                           |
|                                                 | Pesticide Residues                                        | None                                           |
|                                                 | Cadmium                                                   | In-house Method TM002 based                    |
|                                                 | Aerobic Plate Count                                       | In-house Method TM0351 based                   |
|                                                 | Available Carbohydrate                                    | Method of Analysis for Nutrition               |
|                                                 | Lead                                                      | In-house Method, CL/FD/029, Based              |
|                                                 | DEEP, DPP, DHXP, BBP,                                     | None                                           |
|                                                 | Ethylene Oxide, 2-chloroethanol                           | In-house Method, CL/FD/050, Based              |
|                                                 | Butanol e                                                 | In-house Method, CL/FD/045, Based              |
|                                                 | Chlorate, Perchlorate                                     | In-house Method, CL/FD/048, Based              |
|                                                 | None                                                      | Immunoassay Method                             |
|                                                 | Moisture                                                  | In-House Method based on                       |
|                                                 | Crude fat                                                 | In-House Method                                |
|                                                 | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |
|                                                 | None                                                      | None                                           |

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|---------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | Test for Porcine Meat                                       | In-House Method                                             |
|                           | Protein Content                                             | In-House Method                                             |
|                           | Crude Ash                                                   | HV/TM/BCLAB/031                                             |
|                           | Crude Ash                                                   | HV/TM/BCLAB/031                                             |
|                           | None                                                        | In-House Method                                             |
|                           | None                                                        | None                                                        |
|                           | Total Plate Count                                           | HV/TM/MCLAB/001                                             |
|                           | Detection of Staphylococcus using Petrifilm -" Colony Count | HV/TM/MCLAB/004                                             |
|                           | None                                                        | AOAC 998.08:2005,                                           |
|                           | None                                                        | None                                                        |
|                           | None                                                        | (Enumeration by MPN)                                        |
|                           | Campylobacter spp.                                          | ISO 10272-1:2006 (E)                                        |
|                           | None                                                        | IDF/RM 210:2006 (E)                                         |
|                           | Formaldehyde                                                | In-House Method, Ref. No MOH                                |
|                           | azelate (DEHA) -" CAS No. 000103-                           | In-House Method, Ref. No. MOH M03-017/ Migration Test, GCMS |
|                           | Lead (Pb)                                                   | In-House Method, Ref No.                                    |
|                           | Total Arsenic                                               | In-House Method, Ref. No. MOH                               |
|                           | Synthetic colours (13 analytes);                            | In-House Method, Ref. No. MOH                               |
|                           | Sulphathiazole                                              | In-House Method, Ref. No.                                   |
|                           | Total Nitrogen                                              | JKM F 0908 based on Pearson-™s                              |
|                           | Rapid Determination of Thiamine                             | JKM F 1201: In-house based                                  |
|                           | Determination of Vitamin A                                  | JKM F 1203: In-house based on                               |
|                           | Determination of Carbohydrate                               | JKM F 1204: Method of Analysis for                          |
|                           | Determination of Total Fat in                               | JKM F 0925: In-house Method based                           |
|                           | Yeast and Mould Count                                       | JKM M 3020                                                  |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | Macrolides:                                                 | In-house Method, Ref. No. MOH D03-                          |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |
|                           | None                                                        | None                                                        |

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|---------------------------|-----------------------------------------------------------|------------------------------------------------------------------|
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | Nitrogen / Protein                                        | AOCS Ac 4-91                                                     |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | In-house Method, Ref. No. MOH                                    |
|                           | None                                                      | E03-014, Determination of                                        |
|                           | 1) Methyl paraben 2) Ethyl paraben                        | In-house Method, Ref. No. MOH E03-019, The Determination of      |
|                           | None                                                      | In-house Method, Ref. No. MOH E03-023, Determination of Maleic   |
|                           | None                                                      | None                                                             |
|                           | None                                                      | Method for Acidity in                                            |
|                           | None                                                      | In-House Method, MOH J03-001                                     |
|                           | None                                                      | In-House Method, MOH J03-002                                     |
|                           | None                                                      | In-house Method, Ref. No., MOH J03-034 Determination of Caffeine |
|                           | None                                                      | None                                                             |
|                           | 7) Triadimefon 8) Trans-chlordane 9) Cis-chlordane        | In-house Method, Ref. No. MOH F03-009, Based on Journal of AOAC  |
|                           | None                                                      | In-house Method, Ref. No. MOH                                    |
|                           | 6) Cyanofenphos 7) Chlorpyrifos methyl                    | In-house Method, Ref. No. MOH F03-010,                           |
|                           | 1) Alpha HCH 2) Dichloran                                 | None                                                             |
|                           | *Lead *Cadmium                                            | based on AOAC 999.10,1999,                                       |
|                           | None                                                      | In-house Method, Ref. No. MOH H03-002 Determination of Heavy     |
|                           | Sucrose                                                   | AOAC 977.20, 2006,                                               |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | None                                                      | None                                                             |
|                           | Metals                                                    | In-house method LWI-MFF 021                                      |
|                           | Sodium as Na Iron as Fe Calcium as Ca                     | based on AOAC 968.08 (Sample Preparation) & USEPA 6010 B         |
|                           | Copper as Cu                                              | None                                                             |
|                           | Manganese as Mn                                           | None                                                             |

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|--------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                            | Zinc as Zn                                                       | None                                                                                                |
|                                            | Cadmium as Cd                                                    | None                                                                                                |
|                                            | Antimony as Sb                                                   | None                                                                                                |
|                                            | Tin as Sn                                                        | None                                                                                                |
|                                            | Lead as Pb                                                       | None                                                                                                |
|                                            | Fat in Dried Milk                                                | AOAC 932.06                                                                                         |
| Foods (frozen, Cooked And Seafoods)        | None                                                             | Bacteriological Examination of Frozen, Cooked and Peeled Prawns, Ministry of Health Malaysia (1987) |
|                                            | Total Viable Count: i) Pour Plate Method ii) Spread Plate Method | Section 1.2 Section 1.3                                                                             |
|                                            | Coliform Count                                                   | Section 2.1                                                                                         |
|                                            | Escherichia coli Count                                           | Section 2.2                                                                                         |
|                                            | Staphylococcus aureus Count                                      | Section 3.1                                                                                         |
|                                            | Staphylococcus aureus Detection                                  | Section 3.2                                                                                         |
|                                            | Salmonella                                                       | Section 4.1                                                                                         |
|                                            | Vibrio cholerae                                                  | Section 4.2                                                                                         |
|                                            | Vibrio parahaemolyticus                                          | Section 4.2                                                                                         |
| For Domestic And Recreational Purposed)    | Thermotolerant Coliform (MPN)                                    | AS 4276.6- 1995                                                                                     |
|                                            | Escherichia coli (MPN)                                           | AS 4276.6- 1995                                                                                     |
| Fruit Sugars And                           | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
| Honey And Confectionary                    | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
| Margarine & Related Products, Mixed Foods, | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
| Molluscs, Crustaceans & Fish & Others      | Yeasts and Moulds                                                | AS 1766.2.2 1997                                                                                    |
|                                            | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |
|                                            | None                                                             | In-House Method                                                                                     |
|                                            | Examination KOH Wet                                              | as documented in Mycology Sample processing,                                                        |
|                                            | Preparation                                                      | microscopy & identification of fungi                                                                |
|                                            | Preparation                                                      | (GPQD/MIC/SOP-60)                                                                                   |
|                                            | Fungi identification:                                            | Mass Spectrometry as documented in Test/ID                                                          |
|                                            | - yeast &                                                        | Identification/BRUKER Maldi-Tof (1)                                                                 |
|                                            | dermatophytes                                                    | (GPQD/MIC/SOP-57) and Mycology                                                                      |
|                                            | dermatophytes                                                    | Sample processing, microscopy & identification of                                                   |
|                                            | dermatophytes                                                    | fungi (GPQD/MIC/SOP-60)                                                                             |
| Poultry And Poultry Products,              | None                                                             | None                                                                                                |
|                                            | None                                                             | None                                                                                                |

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| Product Fruits,            | None                                                      | None                                           |
|                            | None                                                      | None                                           |
| Products Thereof.          | Coliforms and Escherichia coli                            | AS 1766.2.3 1992                               |
| Products,                  | None                                                      | None                                           |
|                            | None                                                      | None                                           |
| Sweetened Condensed Milks) | None                                                      | None                                           |
| Vegetables And Vegetables  | None                                                      | None                                           |
|                            | None                                                      | None                                           |
|                            | None                                                      | G03-111(1)-DNA Extraction Using                |
| Water                      | Heterotrophic Colony Count                                | AS 4276.3.1-1995                               |
|                            | Zinc Manganese                                            | APHA 3030E, 3120B Edition 2012                 |
|                            | None                                                      | None                                           |
|                            | None                                                      | None                                           |
|                            | Determination of Organochlorine                           | None                                           |
|                            | Bacillus cereus                                           | In-house method 21BAMC-B036                    |
|                            | None                                                      | None                                           |
|                            | Pseudomonas aeruginosa                                    | In-house method 21BAMC-B064                    |
|                            | Total Coliforms                                           | In-house method 21BMPN-B075                    |
|                            | Bacillus cereus                                           | In-house method 21BAMC-B036                    |
|                            | Pseudomonas aeruginosa                                    | In-house method 21BAMC-B064                    |
|                            | Total Coliforms                                           | In-house method                                |
|                            | None                                                      | PCL)                                           |
|                            | Acute Hepatopancreatic                                    | In-house method SD?QC-WI-305 :                 |
|                            | None                                                      | None                                           |
|                            | Pathogen                                                  | , , , APHA 9222A,                              |
|                            | None                                                      | None                                           |
|                            | Temperature                                               | APHA 2550 B                                    |
|                            | Phosphorus                                                | APHA 4500 P C                                  |
|                            | Bromodichloromethane,                                     | In-house Method, CL/WT/008 based               |
|                            | Metals by ICP                                             | APHA 3120 B                                    |
|                            | Mercury                                                   | APHA 3112 B                                    |
|                            | Chlorpyrifos                                              | In-house Method, CL/WT/011,                    |
|                            | Aluminium                                                 | APHA 3125 B (ICP-MS)                           |
|                            | Gross Alpha, Gross Beta                                   | ISO 11704:2018                                 |
|                            | Heterotrophic Plate Count                                 | APHA 9215 B (Pour Plate Method)                |
|                            | pH                                                        | APHA - 4500-H B                                |
|                            | None                                                      | ASTM D 1293-18                                 |
|                            | None                                                      | None                                           |
|                            | None                                                      | None                                           |
|                            | None                                                      | ASTM D 1293-18                                 |
|                            | None                                                      | None                                           |
|                            | Turbidity                                                 | APHA 2130 B                                    |
|                            | pH                                                        | APHA 4500 H* B 23rd Edition                    |
|                            | Total solid dried at 103°C -" 105 °C                      | APHA 2540 B (2005)                             |
|                            | Enumeration of Plankton                                   | Marine Water (PBPKL-STP-PP-1)                  |
|                            | None                                                      | APHA 4500 Norg B (2017) and                    |

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|---------------------------|-----------------------------------------------------------|------------------------------------------------|
|                           | None                                                      | USP Chapter Bacterial                          |
|                           | Coliform, Fecal Coliform &                                | APHA 9222 B.G.H.D                              |
|                           | None                                                      | APHA 3111 B, 2017                              |
|                           | None                                                      | APHA 3111 B, 2017                              |
|                           | None                                                      | None                                           |
|                           | None                                                      | from HACH Method 8023, DR3900                  |
|                           | PH test                                                   | APHA 4500 H*B Edition 2017)                    |
|                           | Total suspended solids                                    | APHA 2540 D Edition 2017)                      |
|                           | Turbidity Test                                            | APHA 2130 B Edition 2017)                      |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | MLSS                                                      | None                                           |
|                           | Hydrocarbon, PAH                                          | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | Selenium (Se) Chromium (Cr)                               | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | Ammonical Nitrogen                                        | APHA 4500-NH3                                  |
|                           | None                                                      | None                                           |
|                           | Lead                                                      | APHA 3120 B                                    |
|                           | Tin                                                       | None                                           |
|                           | Iron                                                      | None                                           |
|                           | Heterotropic plate count                                  | APHA 9215 D                                    |
|                           | Standard total coliform                                   | APHA 9222 B                                    |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | pH                                                        | APHA - B                                       |
|                           | Escherichia coli and Coliform                             | ISO 9308-1:2014 (E) / Enumeration by           |
|                           | Bisphenol A                                               | In-house test method MKA TMO6 based            |

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|                           | Total Hardness                                            | HACH Method 8226, 8" Edition, 2015             |
|                           | Hardness by Calculation                                   | APHA 2340 B & In-house test method             |
|                           | Color                                                     | HACH Method 8025, Edition, 2014                |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | Determination of pH                                       | APHA 4500-H* B, 2005                           |
|                           | Determination of chloride                                 | APHA 4500-CI B, 2005                           |
|                           | Determination of sulphate                                 | APHA B, 2005                                   |
|                           | Determination of alkalinity                               | APHA 2320 B, 2005                              |
|                           | Determination of total solids                             | APHA 2540 B, 2005                              |
|                           | pH                                                        | APHA 4500 H*B                                  |
|                           | Color                                                     | APHA 2120 C (2017)                             |
|                           | Heterotrophic Plate Count                                 | APHA 9215 B (2017)                             |
|                           | Standard Total Coliform                                   | APHA 9221 B (2017)                             |
|                           | Escherichia coli                                          | APHA 9221 F (2017)                             |
|                           | Examination for Legionella spp.                           | AS/NZS 3896:2008                               |
|                           | pneumophila                                               | None                                           |
|                           | Staphylococcus aureus count                               | APHA 9213 B (2017)                             |
|                           | Fecal Streptococcus                                       | APHA 9230 C (2017)                             |
|                           | Pseudomonas aeruginosa                                    | APHA 9213 F (2017)                             |
|                           | Identification of Escherichia coli                        | In-house Method GPS/QA/TM/001                  |
|                           | Identification of Shiga-toxigenic                         | In-house Method GPS/QA/TM/004                  |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | Ammonia                                                   | ASTM D1293                                     |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | None                                                      | None                                           |
|                           | and Escherichia coli                                      | None                                           |
|                           | None                                                      | filtration)                                    |
|                           | Clostridium perfringens                                   | ISO 14189: 2013 (E)                            |

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|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | (2005)                                                  |
|                           | None                                                      | 21% Edition (2005)                                      |
|                           | Colour                                                    | APHA 2120 C 2005                                        |
|                           | Determination of Volatile                                 | Method EPA 524.2 By Purge & Trap                        |
|                           | Oxygen Demand (COD) for High                              | APHA Method 5220D                                       |
|                           | None                                                      | In-house Method JKM W 0502,                             |
|                           | None                                                      | on APHA 4110 B-"lon                                     |
|                           | Colony Count at 36°C                                      | JKM M 2038, ISO 6222:1999 (E)                           |
|                           | Intestinal Enterococci                                    | i) WI 16 -" Sample Preparation for                      |
|                           | Enumeration of Clostridium                                | JKM M 2035                                              |
|                           | Detection of pathogenic                                   | JKM B 0201 Detection of pathogenic                      |
|                           | Identification and Quantification                         | JKM B 0406                                              |
|                           | pH                                                        | APHA - 4500-H B                                         |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | Boron                                                     | HACH METHOD 8015                                        |
|                           | None                                                      | None                                                    |
|                           | E. coli                                                   | APHA 9221 F (MPN Method)                                |
|                           | None                                                      | None                                                    |
|                           | Total Organic Carbon                                      | APHA 5310 C                                             |
|                           | Heterotropic plate count                                  | APHA 9215 B, 22"4 Edition (2012)                        |
|                           | None                                                      | (Membrane Filtration Technique)                         |
|                           | None                                                      | None                                                    |
|                           | Metals by ICP                                             | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |
|                           | pH                                                        | ASTM D 1293-2005 (Method B)<br>APHA 4500 H* B 2005/2017 |
|                           | pH                                                        | ASTM D1293-2005 (Method B)<br>APHA 4500 H* B 2005/2017  |
|                           | None                                                      | None                                                    |
|                           | Turbidity                                                 | APHA 2130B                                              |
|                           | On-site Sampling & Testing (pH Temperature, Turbidity)    | In-house Method SOP-0222-2001 & SOP-0222-2003           |
|                           | Coliform                                                  | APHA 9221 B, Edition, 2005                              |
|                           | Heterotrophic plate count in                              | APHA Method 9215 D, Edition,                            |
|                           | None                                                      | None                                                    |
|                           | None                                                      | None                                                    |

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|                           | pH Value                                                  | BS 1377-3 : 2018 Clause 12                                                              |
|                           | pH Value                                                  | BS 1377-3 : 2018 Clause 12                                                              |
|                           | None                                                      | None                                                                                    |
|                           | Calcium Hardness as CaCO <sub>3</sub> ,                   | APHA 3500-Ca B, 2017                                                                    |
|                           | Magnesium (by Calculation Method)                         | APHA 3500-Mg B, 2017                                                                    |
|                           | Nitrate                                                   | APHA E, 2017                                                                            |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | Aluminium                                                 | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | Organochlorine Pesticide                                  | APHA 6630 B, Edition                                                                    |
|                           | Ammoniacal Nitrogen                                       | APHA F, 24" Edition                                                                     |
|                           | Arsenic                                                   | APHA 3125 B, Edition                                                                    |
|                           | Mercury                                                   | In-house method, SGS-TM-ENVI-003, based on APHA 3125 B                                  |
|                           | 2,4-dichlorophenoxyacetic acid (2,4-D)                    | In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS) |
|                           | Heavy Metals by ICP-MS                                    | None                                                                                    |
|                           | Endotoxin                                                 | Test for Bacterial Endotoxin, BP 2022                                                   |
|                           | pH                                                        | APHA 4500 H*B                                                                           |
|                           | Oil & Grease                                              | APHA 5520 B                                                                             |
|                           | Color                                                     | APHA 2120 B                                                                             |
|                           | Color                                                     | APHA 2120 F                                                                             |
|                           | pH                                                        | APHA 4500 H* B                                                                          |
|                           | Turbidity                                                 | APHA 2130 B                                                                             |
|                           | Conductivity                                              | APHA 2510 B                                                                             |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | None                                                      | None                                                                                    |
|                           | Escherichia coli and coliform                             | ISO 9308-1: 2014 (E) / Enumeration                                                      |
|                           | Pseudomonas aeruginosa                                    | ISO 16266:2006 (E) / Detection and                                                      |
|                           | Ammonium nitrogen                                         | BS 6068: Section 2.7:1984 ISO 5664:1984                                                 |

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|                           | Chemical Oxygen Demand                                    | BS 6068: Section 2.34:1988                                          |
|                           | Suspended solids                                          | BS 2690-Part 120:1981                                               |
|                           | Dissolved solids                                          | BS 2690-Part 121:1981                                               |
|                           | None                                                      | ASTM D 523-82                                                       |
|                           | COD                                                       | APHA 5220 D                                                         |
|                           | None                                                      | None                                                                |
|                           | Free Chlorine                                             | APHA' 4500 -" CI G                                                  |
|                           | Count                                                     | (Pour Plate, Spread Plate and                                       |
|                           | Anaerobes (Clostridia)                                    | BS 6068-4.9: 1993                                                   |
|                           | Gross Alpha & Gross Beta                                  | None                                                                |
|                           | Arsenic as As                                             | None                                                                |
|                           | Antimony as Sb                                            | None                                                                |
|                           | Aluminium as Al                                           | None                                                                |
|                           | Beryllium as Be                                           | None                                                                |
|                           | Cadmium as Cd                                             | None                                                                |
|                           | Chromium as Cr                                            | None                                                                |
|                           | Lead as Pb                                                | None                                                                |
|                           | Silver as Ag                                              | None                                                                |
|                           | Selenium as Se                                            | None                                                                |
|                           | Thallium as Tl                                            | None                                                                |
|                           | Mercury as Hg                                             | In-house Method LWI-MWE 037 based on APHA 3112 B by                 |
|                           | Mercury as Hg                                             | Mercury Analyser                                                    |
|                           | Nitrate                                                   | In-house Method LWI-MWE 032 based on HACH Nitrate                   |
|                           | Nitrate                                                   | Test Comparator                                                     |
|                           | Sulfide                                                   | HACH Method 8131                                                    |
|                           | Chlorine, Free Residual                                   | In-house Method LWI-MWE                                             |
|                           | Chlorine, Free Residual                                   | 034 based on DPD-Palintest                                          |
|                           | Chlorine, Free Residual                                   | Test Comparator                                                     |
|                           | Total Chlorine                                            | In-house Method LWI-MWE                                             |
|                           | Total Chlorine                                            | 035 based on DPD-Palintest                                          |
|                           | Total Chlorine                                            | Test Comparator                                                     |
|                           | Colour (ADMI)                                             | APHA 2120 F                                                         |
|                           | Heterotrophic Plate Count                                 | None                                                                |
|                           | Pseudomonas aeruginosa                                    | In-house Method LWI-MME (APHA) 007                                  |
|                           | Pseudomonas aeruginosa                                    | based on APHA 9213 E, 2020                                          |
|                           | Escherichia coli and Coliform                             | Escherichia coli and Coliform Bacteria. Part 1: Membrane filtration |
|                           | Escherichia coli and Coliform                             | method                                                              |
|                           | Escherichia coli and Coliform                             | Method No: MOH (1)                                                  |
|                           | Escherichia coli and Coliform                             | ISO 29981 : 2010 (E), IDF 220 :                                     |
|                           | Escherichia coli and Coliform                             | 2010 (E) Milk Products -                                            |
|                           | None                                                      | None                                                                |
|                           | None                                                      | None                                                                |
|                           | None                                                      | None                                                                |

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|                           | None                                                      | None                                           |

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