

MICROBIOLOGICAL TESTING DETAILS

WATER SAMPLE ANALYSIS DETAILS:

1. DRINKING WATER OR POTABLE WATER OR UNBOTTLED WATER:

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Total Coliforms by Membrane Filtration	APHA 9222 B
03	Fecal Coliforms by Membrane	APHA 9222 B & G
04	E. Coli by Membrane Filtration	APHA 9222 B & G
05	Fecal Streptococci or Enterococci	APHA 9230 C
06	Pseudomonas aeruginosa	ISO 16266
07	Staphylococcus aureus	NSM W10
08	Sulphite Reducing Clostridia	CCFRA 2.8.3
09	Yeast and Moulds	APHA 9610 D

2. TAP WATER/TANK WATER/WATER FROM WATER TANKERS:

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Legionella	ISO 11731-2

3. BOTTLED WATER (AVAILABLE IN PACKED BOTTLES FROM DIFFERENT BRANDS):

S. No.	Test Description	Test Method
01	Total Coliforms by Membrane Filtration	APHA 9222 B
02	Fecal Coliforms by Membrane	APHA 9222 B & G
03	E. Coli by Membrane Filtration	APHA 9222 B & G
04	Fecal Streptococci or Enterococci	APHA 9230 C
05	Pseudomonas aeruginosa	ISO 16266
06	Sulphite Reducing Clostridia	CCFRA 2.8.3

4. COOLING WATER SYSTEM (COOLING TOWERS/EVAPORATIVE CONDENSORS):

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Legionella	ISO 11731-2

5. HOT WATER SYSTEM & COLD WATER SYSTEM:

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Legionella	ISO 11731-2

6. WATER SYSTEM: (SHOWER HEAD/FOUNTAIN/SPA/JACUZZI/AIR WASHERS/HUMIDIFIERS):

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Legionella	ISO 11731-2

7. DENTAL CHAIR WATER (HANDPIECE/CUPFILLER):

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Legionella	ISO 11731-2

8. EDIBLE PACKAGED ICE:

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Total Coliforms by Membrane Filtration	APHA 9222 B
03	Fecal Coliforms by Membrane	APHA 9222 B & G
04	E. Coli by Membrane Filtration	APHA 9222 B & G
05	Pseudomonas aeruginosa	ISO 16266

9. SWIMMING POOL WATER:

S. No.	Test Description	Test Method
01	HPC	APHA 9215 B
02	Total Coliforms by Membrane Filtration	APHA 9222 B
03	Fecal Coliforms by Membrane	APHA 9222 B & G
04	Fecal Streptococci or Enterococci	APHA 9230 C
05	Pseudomonas aeruginosa	ISO 16266

10. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (INDUSTRIAL WASTE WATER):

S. No.	Test Description	Test Method
01	Fecal Coliforms by MPN	APHA 9221 E
02	Nematological Examination	APHA 10750 B

11. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (IRRIGATION WATER):

S. No.	Test Description	Test Method
01	Fecal Coliforms by MPN	APHA 9221 E

12. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (GROUND WATER):

S. No.	Test Description	Test Method
01	Fecal Coliforms by MPN	APHA 9221 E

13. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (MARINE WATER):

S. No.	Test Description	Test Method
01	E.coli by MPN	APHA 9221 F

14. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (WASTEWATER DISPOSAL TO MARINE WATER):

S. No.	Test Description	Test Method
01	Coliforms by MPN	APHA 9221 B
02	Fecal Coliforms by MPN	APHA 9221 E
03	Egg & Worm Parasites (I.E, *Nematological Examination)	APHA 10750 B

15. RAW WATER OR NON POTABLE WATER OR SURFACE WATER (WASTEWATER DISPOSAL TO SEA WATER):

S. No.	Test Description	Test Method
01	Fecal Coliforms by MPN	APHA 9221 E

NOTE: *NEMATOLOGICAL EXAMINATION - APHA 10750 B

COSMETICS SAMPLE ANALYSIS DETAILS:

1. COSMETICS (CREAM/LOTION/SUSPENSION/SOLUTION/OINTMENT/POWDER/GEL/STICK):

S. No.	Test Description	Test Method
01	Enumeration and detection of Aerobic Mesophilic Bacteria	ISO 21149
02	Detection of Staphylococcus aureus	ISO 22718
03	Detection of Pseudomonas aeruginosa	ISO 22717
04	Detection of E.coli	ISO 21150
05	Enumeration of Yeast & Mould	ISO 16212

AIR SAMPLE ANALYSIS DETAILS:

1. AIR (ROOM):

S. No.	Test Description	Test Method
01	Total Bacterial Count	NMAM 800
02	Fungal Count	

SWAB ANALYSIS DETAILS:

1. HAND SWAB (PERSONNEL):

S. No.	Test Description	Test Method
01	Total Bacterial Count	BAM Chapter 3
02	Total Coliforms	CCFRA 2.2.1
03	Staphylococcus aureus	CCFRA 3.5.1

SURFACE SWAB ANALYSIS DETAILS:

1. SURFACE SWAB - UTENSIL (SPOON/KNIFE/BOWL/CUP/PLATE/ETC):

S. No.	Test Description	Test Method
01	Total Bacterial Count	BAM Chapter 3
02	Total Coliforms	CCFRA 2.2.1
03	E.coli	BAM Chapter 4

2. SURFACE SWAB - SURFACE (CHOPPING BOARD/TABLE/MOLD/ETC):

S. No.	Test Description	Test Method
01	Total Bacterial Count	BAM Chapter 3
02	Total Coliforms	CCFRA 2.2.1
03	E.coli	BAM Chapter 4

3. SURFACE SWAB - EQUIPMENTS (CONVEYOR BELT/X-RAY MACHINE/CHILLER/ETC):

S. No.	Test Description	Test Method
01	Total Bacterial Count	BAM Chapter 3
02	Total Coliforms	CCFRA 2.2.1
03	E.coli	BAM Chapter 4

FOOD ANALYSIS DETAILS:

1. DAIRY PRODUCTS – (MILK/CREAM):

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
03	E.coli by MPN method	CMMEF 9.91
04	Coliforms by MPN method	CMMEF 9.81
05	Salmonella sps	CCFRA 3.1.2
06	Yeast and Moulds	CCFRA 2.1.1
07	Staphylococcus Aureus	CCFRA 3.5.1

2. DAIRY PRODUCTS – (CHEESE):

S. No.	Test Description	Test Method
01	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
02	E.coli by MPN method	CMMEF 9.91
03	Salmonella sps	CCFRA 3.1.2
04	Staphylococcus aureus	CCFRA 3.5.1
05	Listeria spp.	Reveal test kit, Neogen Corporation
06	Aerobic Plate Count	BAM Chapter 3

3. DAIRY PRODUCTS – (ICE-CREAM):

S. No.	Test Description	Test Method
01	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
02	E.coli by MPN method	CMMEF 9.91
03	Salmonella sps	CCFRA 3.1.2
04	Staphylococcus aureus	CCFRA 3.5.1
05	Yeast and Moulds	CCFRA 2.1.1
06	Aerobic Plate Count	BAM Chapter 3

4. DIETIC FOODS – (BISCUITS):

S. No.	Test Description	Test Method
01	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
02	Yeast and Moulds	CCFRA 2.1.1
03	Salmonella sps	CCFRA 3.1.2
04	Staphylococcus aureus	CCFRA 3.5.1
05	E. Coli O157 : H7	AOAC 2000.14
06	Bacillus Cereus	BAM Chapter 14

5. DIETIC FOODS – (CEREAL BASED FOODS):

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Salmonella sps	CCFRA 3.1.2
03	Staphylococcus aureus	CCFRA 3.5.1
04	Bacillus Cereus	BAM Chapter 14
05	Listeria spp.	Reveal test kit, Neogen Corporation
06	Clostridium Perfringens	CCFRA 3.6.1
07	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
08	E. Coli O157 : H7	AOAC 2000.14

6. MEAT,POULTRY AND ITS PRODUCTS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Salmonella sps	CCFRA 3.1.2
03	E. Coli O157 : H7	AOAC 2000.14
04	Clostridium Perfringens	CCFRA 3.6.1
05	Staphylococcus aureus	CCFRA 3.5.1
06	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
07	Listeria spp.	Reveal test kit, Neogen Corporation

7. FISH, SHELLFISH AND THEIR PRODUCTS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	E.coli by MPN method	CMMEF 9.91
03	Vibrio Parahaemolyticus	CCFRA 3.8.2
04	Salmonella sps	CCFRA 3.1.2
05	Listeria spp.	Reveal test kit, Neogen Corporation
06	Staphylococcus aureus	CCFRA 3.5.1
07	E. Coli O157 : H7	AOAC 2000.14
08	Clostridium Perfringens	CCFRA 3.6.1
09	*SHIGELLA SPS.	BAM CHAPTER 6

8. EGG AND THEIR PRODUCTS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	E.coli by MPN method	CMMEF 9.91
03	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
04	Salmonella sps	CCFRA 3.1.2
05	Listeria spp.	Reveal test kit, Neogen Corporation
06	Staphylococcus aureus	CCFRA 3.5.1
07	Bacillus Cereus	BAM Chapter 14
08	Clostridium Perfringens	CCFRA 3.6.1

9. TOMATO CONCENTRATES:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Yeast and Moulds	CCFRA 2.1.1
03	Salmonella sps	CCFRA 3.1.2

10. FATS AND OILS:

S. No.	Test Description	Test Method
01	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
02	Salmonella sps	CCFRA 3.1.2
03	Listeria spp.	Reveal test kit, Neogen Corporation
04	Staphylococcus aureus	CCFRA 3.5.1
05	Yeast and Moulds	CCFRA 2.1.1
06	E.coli by MPN method	CMMEF 9.91
07	Aerobic Plate Count	BAM Chapter 3

11. SPICES AND HERBS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Yeast and Moulds	CCFRA 2.1.1
03	Staphylococcus aureus	CCFRA 3.5.1
04	Bacillus Cereus	BAM Chapter 14
05	Clostridium Perfringens	CCFRA 3.6.1
06	Salmonella sps	CCFRA 3.1.2
07	Fecal Coliforms by MPN	CMMEF 9.81

12. SAUCES:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Yeast and Moulds	CCFRA 2.1.1
03	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
04	E.coli by MPN method	CMMEF 9.91
05	Salmonella sps	CCFRA 3.1.2
06	Staphylococcus aureus	CCFRA 3.5.1

13. CEREALS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Yeast and Moulds	CCFRA 2.1.1
03	Staphylococcus aureus	CCFRA 3.5.1
04	Bacillus Cereus	BAM Chapter 14
05	Clostridium Perfringens	CCFRA 3.6.1
06	Salmonella sps	CCFRA 3.1.2
07	E.coli by MPN method	CMMEF 9.91
08	Coliforms by MPN method	CMMEF 9.81
09	Enumeration of Enterobacteriaceae	Reveal test kit, Neogen Corporation
10	Listeria spp.	CCFRA 2.2.1

14. FRUITS AND VEGETABLES:

S. No.	Test Description	Test Method
01	Yeast and Moulds	CCFRA 2.1.1
02	E.coli by MPN method	CMMEF 9.91
03	Salmonella sps	CCFRA 3.1.2
04	Staphylococcus aureus	CCFRA 3.5.1
05	Listeria spp.	Reveal test kit, Neogen Corporation
06	E. Coli O157 : H7	AOAC 2000.14
07	Bacillus Cereus	BAM Chapter 14
08	Clostridium Perfringens	CCFRA 3.6.1

15. JAM AND JELLY:

S. No.	Test Description	Test Method
01	Yeast and Moulds	CCFRA 2.1.1
02	Salmonella sps	CCFRA 3.1.2

16. VINEGAR:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3

17. CHOCOLATES,SWEETS AND THEIR INGREDIENTS:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Yeast and Moulds	CCFRA 2.1.1
03	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
04	Salmonella sps	CCFRA 3.1.2
05	Staphylococcus aureus	CCFRA 3.5.1
06	Listeria spp.	Reveal test kit, Neogen Corporation
07	E. Coli O157 : H7	AOAC 2000.14

18. INGREDIENTS FOR FOOD INDUSTRY:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Salmonella sps	CCFRA 3.1.2
03	Staphylococcus aureus	CCFRA 3.5.1
04	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
05	Clostridium Perfringens	CCFRA 3.6.1

19. BEVERAGES:

S. No.	Test Description	Test Method
01	Aerobic Plate Count	BAM Chapter 3
02	Salmonella sps	CCFRA 3.1.2
03	Staphylococcus aureus	CCFRA 3.5.1
04	Yeast and Moulds	CCFRA 2.1.1
05	Bacillus Cereus	BAM Chapter 14
06	E.coli by MPN method	CMMEF 9.91
07	Coliforms by MPN method	CMMEF 9.81
08	E. Coli O157 : H7	AOAC 2000.14

20. READY TO EAT FOODS:

S. No.	Test Description	Test Method
01	E.coli by MPN method	CMMEF 9.91
02	E. Coli O157 : H7	AOAC 2000.14
03	Salmonella sps	CCFRA 3.1.2
04	Listeria spp.	Reveal test kit, Neogen Corporation
05	Staphylococcus aureus	CCFRA 3.5.1
06	Bacillus Cereus	BAM Chapter 14
07	Enumeration of Enterobacteriaceae	CCFRA 2.3.1
08	Clostridium Perfringens	CCFRA 3.6.1

* NOTE: In food, parameters varies as per different food products.