|  |  |  |  |
| --- | --- | --- | --- |
| **Name of KTP:** | : | **Date of Review / Update:** | : |

**Potable/Suitable Water Microbiology**

1.1.1 Total coliforms / *E coli*

1.2 Faecal coliforms

1.3 Colony count 22ºC

1.6.1 *Clostridium perfringens*

**Animal Products Microbiology**

2.1.1 Aerobic plate count (APC)

2.1.2 APC spread plate

2.1.3 APC Petrifilm

2.1.4 APC spiral plate

2.1.5 APC (tripe)

2.2.1 *Escherichia coli* (direct/Petrifilm)

2.2.2 *Escherichia coli* (Petrifilm)

2.3 *Staphylococcus aureus*

2.4.1 Salmonella

2.4.2 Salmonella

2.4.3 Salmonella

2.6 *Listeria monocytogenes*

2.8 *Clostridium perfringens*

2.8.1 *Clostridium perfringens*

2.9 Enterobacteriaceae

2.9.1 *Cronobacter* species (incl. *C.* *sakazakii*)

2.10 Faecal coliforms

2.10.1 Total Coliforms

2.11 *Bacillus anthracis*

2.12 *Trichinella* species

2.13 Bovine Viral Diarrhoea

2.13.1 Bovine Viral Diarrhoea (blood)

2.14 American Foul Brood

2.15 Asepsis

2.16 Mycoplasma

2.17 Pathogen inducing cytopathy

2.18 Pathogen inducing haemadsorption

2.19 Infectious bovine rhinotracheitis

2.20 Low pathogenic Avian Influenza

22.1 Campylobacter

23.1 *Escherichia coli* 0157:H7

23.1.1 *E. coli* O157:H7 IMS culture isolation

23.3 Top 7 *E. coli*

23.4 Top 7 *E. coli* molecularconfirmation

23.5 Culture Confirmation Top 7 STEC incl. *E. coli* O157:H7

**Fish Chemistry**

**☐** 3.1.1 Proximate analysis – Ash

**☐** 3.1.2 Proximate analysis – Fat

3.1.3 Proximate analysis - Moisture

3.1.4 Proximate analysis – Protein

**Tallow, Fats and Oils**

4.01 Insoluble impurities

4.02 Free fatty acids (m/m% oleic acid)

4.03 Peroxide

4.04 Moisture

**Potable/Suitable Water – Physico-Chemical**

5.01 Colour

5.02 Conductivity

5.03 pH

5.04 Turbidity

5.10 Ammoniacal nitrogen

5.11 Chloride

5.12 Fluoride

5.13 Nitrate

5.14 Nitrite

5.16 Sulphate

5.17 Aluminium

5.18 Arsenic

5.19 Boron

5.20 Cadmium

5.22 Chromium

5.23 Copper

5.24 Cyanide

5.25 Iron

5.26 Lead

5.28 Manganese

5.29 Mercury

5.31 Sodium

5.32 Selenium

5.35 Polynuclear aromatic hydrocarbons

5.36.1 Acid herbicides

5.36.2 Chlortoluron, Diuron, Thiabendazole

5.36.3 Semi Volatile Compounds (SVOC)

5.36.4 1080

5.39 Volatile Organic Compounds (VOC)

5.40 Trihalomethanes

5.41 Oxidisability

5.42 Total Organic Carbon

5.43 Acrylamide

5.44 Antimony

5.45 Bromate

5.46 Nickel

**Animal Products Composition**

6.01 Vitamin A

6.02 Vitamin B1

6.03 Vitamin B2

6.04 Vitamin B3

6.05 Vitamin B5

6.06 Vitamin B6

6.07 Folic acid or folate

6.08 Biotin

6.09 Vitamin B12

6.10 Vitamin C

6.11 Vitamin D3

6.12 Vitamin E

6.13 Vitamin K2

6.14 Calcium

6.15 Chloride or chlorine

6.16 Copper

6.17 Fluoride or fluorine

6.18 Iodide or iodine

6.19 Iron

6.20 Magnesium

6.21 Manganese

6.22 Phosphorus

6.23 Potassium

6.24 Sodium

6.25 Zinc

6.26 Choline

6.27 Taurine

6.28 Cholesterol

6.29 Dietary fibre (total, insoluble)

6.30 Fatty acid profile

6.31 pH

6.32 Sulphated ash

6.33 Total sugar

6.34 Water activity

**Animal Products Additives / Ingredients**

7.01 Benzoates/benzoic acid

7.02 Sorbates/sorbic acid

7.03 Nitrate

7.04 Nitrite

7.05 Salt NaCl

7.06 Sucrose

7.07 Reducing sugars

7.08 Invert sugar

7.09 Sugar profile

7.10 Sulphur dioxide/sulphites

**Animal Products Chemical Residues**

8.1 Stilbenes + steroids & resorcyclic acid lactones

8.4 Aminoglycosides

8.5 Beta-lactams

8.6 Cephalosporins

8.7 Tetracyclines

8.8 Amphenicols

8.9 Macrolides

8.9.1 Virginiamicin

8.10 Sulphonamides

8.11 Nitroimidazoles

8.12 Carbadox

8.13 Benzamidazoles

8.13.1 Montepantel

8.14 Imidazothiazoles

8.15 Polyether coccidiostats

8.15.1 Toltrazuril

8.16 Milbemycin group

8.17 Synthetic pyrethroids & carbamates

8.18 Organophosphates

8.19 Beta-agonists

8.20 Heavy metals & chemical elements

8.21 Organochlorines

8.22 Species identity and verification

8.23 Fluoroacetate/1080

8.25 Nitrofurans

8.26 Anticoagulants

8.27 Dioxins, coplanar PCBs & PBrDPE & PAHs

8.28 Quinolone antibiotics

8.29 Non-steroidal anti-inflammatory substances

8.30 Amprolium

8.31 Hormonal growth promotants

8.32 Thyrostatic agents

8.33 Progestagenic substances

8.34 Corticosteroids

8.35 Halofuginone

8.36 Robenidene

8.37 Malachite green/triphenyl methane dyes

8.38 Chlorpromazine

8.39 Nicarbazin

8.40 Paradichlorobenzene

8.41 Salicylanilides

8.42 Tutin

8.43 Melamine, DCD, cryomazine, dicyclanil & cyanuric acid

8.44 Lignocaine and Xylazine

8.45 Isoeugenol

8.46 Fungicides

8.47 Herbicides

8.47.1 Glyphosate (incl AMPA)

8.48 Mycotoxins (fungal toxins)

8.49 Neonicotinoids

8.50 Pyrrolidiazine alkaloids

8.51 Fumagillin

8.52 Amitraz

8.53 Phthalates

8.54 Cleansing agents; phenols & cresols including chlorinated forms

8.55 Nitrate and nitrite

8.57 Aldehydes

8.58 Daspone

8.59 Buparvaquone

8.60 Quarternary ammonium compounds

8.61 Chlorhexidine

8.62 Macrocyclic lactones

8.63 Thiocyanates

8.64 Bisphenol A

8.65 Inhibitory substances

8.66 Chlorate & perchlorate

8.67 Nonylphenyl ethoxylates (NPEs)

8.68 3-monochloropropanediol (3-MCPD)

8.69 Insecticides

**Gelatine**

9.08 Arsenic

9.09 Lead

9.10 Mercury

9.11 Chromium

9.12 Copper

9.13 Zinc

9.16 Sulphur dioxide

9.17 Hydrogen peroxide

9.18 Cadmium

**Honey**

10.02 Moisture

10.03 Reducing Sugars

10.04 *Leptospermum scoparium* DNA

10.05 2-MAP, 2-MBA, 3-PA, 4-HPA

**Seafood Products and Water**

11.1.1 Faecal coliforms

11.1.2 Total coliforms / *E. coli*

11.2.1 Faecal coliforms

11.2.3 Total coliforms / *E. coli*

11.2.4 Chemical physical parameters

11.3.1 Faecal coliforms

11.3.3 Total coliforms / *E. coli*

11.4.1 Total coliforms / *E. coli*

11.5.3 Total Plate Count (TPC or APC)

11.5.4 *Staphylococcus aureus*

11.5.6 *Vibrio parahaemolyticus*

11.5.7 Heavy metals

11.5.8 Histamine

11.5.9 Total Volatile Basic Nitrogen

11.5.10 *Escherichia coli*

11.5.11 Salmonella

11.5.12 *Vibrio cholerae*

11.6.1 Faecal coliforms

11.6.2 *Escherichia coli*

11.6.3 Salmonella

11.6.4 *Vibrio parahaemolyticus*

11.6.6 Heavy metals

11.6.7 APC, TPC

11.6.8 *Staphylococcus aureus*

11.6.9 *Vibrio cholerae*

11.6.10 Norovirus

11.7.1 PSP

11.7.2 DSP

11.7.3 NSP

11.7.4 ASP

11.7.5 PTX

11.7.6 YTX

11.7.7 AZP

11.7.8 Phytoplankton

11.8.1 *Escherichia coli*

11.8.2 Salmonella

11.8.5 *Listeria monocytogenes*

11.8.6 APC

**Dairy Products Microbiology**

30.1 Somatic cells

30.5 APC

30.6 Coliforms (Total)

30.7 Thermodurics

31.1 APC, SPC, TCC

31.2 *Bacillus cereus*

31.2.1 *Bacillus cereus* enterotoxin

31.3 Campylobacter

31.4 *Clostridium botulinum*

31.5 *Clostridium perfringens*

31.6 Coliforms (count)

31.7 *Escherichia coli*

31.8 Enterobacteriaceae

31.9 Faecal coliforms

31.10 *Listeria monocytogenes*

31.11 Lipolytic organisms

31.12 Salmonella

31.13 Staphylococcal enterotoxin

31.14 *Staphylococcus aureus* (Staphylococcus, Coagulase Positive)

31.15 Sulphite reducing clostridia (SRC)

31.16 Yeasts and moulds

31.17 Cronobacterspecies (including *C. sakazakii*)

**Dairy Products Composition**

32.1 Fat

32.2 Fatty acids

32.3 Moisture

32.4 Protein

32.5 Solids Non-Fat

32.6 Salt

32.7 Vitamin A

32.8 Vitamin D2 & D3

32.9 Minerals: Sodium, Potassium, Chloride

32.10 Sugar

32.11 Biotin

32.12 Calcium

32.13 Chloride

32.14 Folic acid

32.15 Ganglioside

32.16 Inositol

32.17 Inulin

32.18 Iodine value

32.20 Lutein

32.21 Nucleotides

32.23 Taurine

32.25 Vitamin B1

32.26 Vitamin B2

32.27 Vitamin B3

32.28 Vitamin B5

32.29 Vitamin B6

32.30 Vitamin B12

32.31 Vitamin C

32.32 Vitamin K1

32.33 Immunoglobulins

32.34 Lactose

32.35 Sterols

32.36 Total Solids

**Dairy Products Chemical & Physical**

30.2 Inhibitory substances

30.3 Freezing point

30.4 Urea

30.8 Foreign matter

30.9 Titratable acidity

33.1 Foreign Matter

33.2 Sediment

33.3 Freezing point

33.4 Phosphatase

33.5 Reichart-Meissl Value

33.6 Polenske Value

33.7 pH

33.8 Titratable Acidity

33.9 Solubility (insolubility index)

33.10 Aflatoxin

33.11 Peroxide value

33.12 Radionuclides

33.13 Ash

33.14 Hydrogen peroxide

33.15 Scorched particles