

**Department of Science and Technology – VII
Regional Standards and Testing Laboratory**

Address : S & T Complex, Sudlon, Lahug, Cebu City
Telephone No. : (032) 254-7051
Fax No. : (032) 254-7049
E-mail : obet1963@yahoo.com
Contact Person : **Roberto Edra**
Laboratory Head
Field of Testing : Chemical Testing and
 Microbiological Testing
 30 June 2018

Chemical Testing

Products	Specific Tests	Method/Reference
I. Food		
05.0 Fruits and vegetables, nuts and seeds		
05.1 Frozen vegetables and fruits	Ash	NMKL Method No. 6, 4 th Ed. 2003
05.2 Fermented fruits and vegetables	Protein	NMKL Method No. 173, 2002
05.3 Fruits and vegetable products in hermetically sealed container		
05.4 Dried fruits and vegetables, seaweeds, nuts and seeds		
05.7 Jams, jellies, marmalades and fruit fillings for pastries		
05.8 Fruit preparations (pulp, purees, fruit toppings and coconut milk)	Sodium(Na) Potassium(K) Calcium(Ca)	In-house method C-SOP-3-112
11.0 Fish and fish products, including molluscs, crustaceans, and echinoderms		
11.1 Processed fish and fish products, including molluscs, crustaceans, and echinoderms	Ash	NMKL Method No. 6, 4 th Ed. 2003
11.2 Semi-preserved fish and fish products, including molluscs, crustaceans, and echinoderms	Protein	NMKL Method No. 173, 2002
11.3 Fully preserved, including canned or fermented fish and fish products, including molluscs crustaceans, and echinoderms	Sodium(Na) Potassium(K) Calcium(Ca)	In-house method C-SOP-3-112

Microbiological Testing

Products	Specific Tests	Method/Reference
I. Foods		
01.0 Milk and Dairy products		
01.1 Milk powder and cream powder	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
03.0 Edible ices, including sherbet and sorbet		
03.1 Ice cream and sherbet	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>S. aureus</i> count	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
03.2 Ice cream with added ingredients	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>S. aureus</i> count	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5

05.0 Fruits, vegetables and nuts		
05.5 Coconut Desiccated	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	Yeast and Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chater 18
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>E.coli</i> count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
07.0 Cereals and cereal products		
07.1 Breakfast cereals	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	Yeast and Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chater 18
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>E.coli</i> count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
07.2 Cereal/cereal grains	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chapter 17, Method 990.12

	Yeast and Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>E.coli</i> count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
07.5 Flour, corn meal, corn grits, Semolina	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
	Yeast and Yeast like fungi Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
08.0 Bakery Products		
08.1 Frozen bakery products (ready to eat) with low acid or high a_w fillings or toppings	<i>S. aureus</i> count <i>Salmonella</i> detection	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5 Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
08.2 Frozen bakery products (to be cooked) with low acid or high a_w fillings or toppings (e.g. meat pies and pizzas)	<i>S. aureus</i> count <i>Salmonella</i> detection	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5 Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
08.3 Frozen and refrigerated dough (Chemically leavened)	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chapter 17, Method 990.12
	Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
	Yeast and Yeast like fungi	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
		Food, Pour Plate Method/ BAM On-

	Coliform Count	line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>E.coli</i> count	Food, Pour Plate Method/ BAM On- line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>S. aureus</i> count	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
11.0 Fish and fish products		
11.1 Fresh frozen fish and cold-smoked	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	<i>E.coli</i> Count	Food, Pour Plate Method/ BAM On- line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>S. aureus</i> Count	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5
	<i>Salmonella</i> detection	Food, Presence-Absence Method/ BAM On-line, April 2003, Chapter 5
11.2 Pre-cooked breaded and fish	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chater 17, Method 990.12
	<i>E.coli</i> count	Food, Pour Plate Method/ BAM On- line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
	<i>S. aureus</i> count	Food, Surface Plating Method/ BAM On-line, April 2003, Chapter 5
13.0 Beverages		
13.1 Non-alcoholic (e.g.	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3

Ready to drink soft drinks, iced tea, energy drinks)		Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chapter 17, Method 990.12
	Yeast and Mold Count	Food, Pour Plate Method/ BAM On-line, April 2001, Chapter 18
	Coliform Count	Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method/AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
13. 3 Powdered beverages(Juices)	Aerobic Plate Count	Pour Plate Method/ BAM On-line, Jan. 2001, Chapter 3 Food, Dry Dehydratable Film Method/ AOAC 16 th ed., 1995 Chapter 17, Method 990.12
	Coliform Count	Water, Standard Coliform Multiple Tube (MPN) Test 908D/ SMEWW, 16 th ed., Part 900-908A Food, Pour Plate Method/ BAM On-line, September 2002, Chapter 4 Food, Dry Dehydratable Film Method /AOAC, 16 th ed., 1995 Chapter 17, Method 991.14
IV. Water		
1.0 Bottled Water	Heterotrophic Plate Count <i>E.coli</i> count	Water, Pour Plate Method/ SMEWW, 16 th ed. Part 900-907 Water, Standard Coliform Multiple Tube (MPN) Test 908D/ SMEWW, 16 th ed., Part 900-908A