

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

Address : Pettit Barracks, Zamboanga City
 Telephone No. : (062) 991-1024
 Fax No. : (062) 992-1114
 E-mail : rosemarie.salazar@gmail.com
 Contact Person : **Rosemarie Salazar**
Laboratory Head
 Field of Testing : Chemical Testing and
 Microbiological Testing
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Chemical Testing

Products	Specific Tests	Method/Reference
I. Foods		
11.0 Fish and fish products, including mollusks, crustaceans, and echinoderm		
11.1 Processed fish and fish products	Protein	Kjeldahl Block Digestion
11.2 Semi-preserved fish and fish products	pH	AOAC 16 th Ed.,1997 Electrometric AOAC 937.07 AOAC 981.12
11.3 Fully preserved, including canned or fermented fish and fish products	Fat	Soxtec (Soxhlet) AOAC 16 th Ed.,1997
	Lead Cadmium	Direct Flame AAS Method after Microwave Digestion, AOAC 999.10
12.0 Salts, spices, soups, sauces, salads and protein products		
12.6 Sauces and like products 12.6.4 Clear sauces (e.g. fish sauce)	Moisture Content	Oven-drying, Vacuum-oven AOAC 16 th ed.,1997
12.9 Soybean-based seasonings and condiments	Ash Content	Gravimetric (Furnace), AOAC 16 th ed. 1997
13.0 Beverages		
13.4 Coffee, coffee substitutes tea herbal infusions, and other hot cereal and grain beverages	Protein	Kjeldahl Block Digestion AOAC 16 th Ed.,1997
	pH	Electrometric AOAC 937.07 AOAC 981.12

	Fat	Soxtec (Soxhlet) AOAC 16 th Ed.,1997
	Lead Cadmium	Direct Flame AAS Method after Microwave Digestion, AOAC 999.10

IV.Waters

01.0 Bottled Water	Total Hardness	Titrimetric (EDTA) SMEWW Part 2340C
	Calcium	Titrimetric (EDTA) SMEWW Part 3500Ca B
	Magnesium	By calculation SMEWW Part 3500-Mg
	pH	Electrometric SMEWW Part 4500-H ⁺
	Conductivity	Conductivity Cell SMEWW Part 2510B
	Chloride	Titrimetric (Argentometric SMEWW Part 4500-Cl ⁻
	Total Dissolve Solids	Gravimetric ,Dried@ 180°C SMEWW Part 2540C

Microbiological Testing

Products	Specific Tests	Method/Reference
I. Foods		
1.0 Milk and Dairy products		
01.1 Milk powder and cream powder	Aerobic Plate Count	Pour Plate Method , BAM Online 2001
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
01.2 Sweetened Condensed Milk	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
01.4 Pasteurized milk	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
01.5 Pasteurized cream	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
01.6 Yogurt and other fermented milk	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
01.7 Cheese and Cheese Products; e.g. Cottage Cheese; Soft and semi-soft cheese	Coliform count <i>E.coli</i>	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
01.8 Processed Cheese Spread	Aerobic Plate Count	Pour Plate Method, BAM Online
01.9 All Raw Milk Cheese; Raw Milk Un-ripened cheese with moisture >50%, pH >5.0	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
02.0 Fats, Oils and Fat Emulsions		
02.1 Butter (whipped, pasteurized)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
02.2 Butter made from	Aerobic Plate Count	Pour Plate Method, BAM Online

unpasteurized milk or milk products	<i>E.coli</i>	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
02.3 Margarine	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	Faecal Coliform	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
03.0 Edible Ices, Including Sherbet and Sorbet		
03.1 Ice Cream & Sherbet (plain and flavored)	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
03.2 Ice Cream with added ingredients (nuts, fruits, cocoa)	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
03.3 Flavored Ice	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	Coliform count	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
04.0 Confectioneries		
04.1 Cocoa Powder	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Dilution Plating Method, BAM Online
	Coliform count	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test

04.2 Chocolate Products	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Dilution Plating Method, BAM Online
	Coliform count	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
04.3 Chocolate Confectionaries (chocolate bars, blocks, bonbons)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Dilution Plating Method, BAM Online
	Coliform count	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
04.4 Sugar Confectionaries (Hard and soft candies toffees, caramel, fondants, creams, nougats and pastes)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Dilution Plating Method, BAM Online
	Coliform count	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
05.0 Fruits and Vegetables, Nuts and Seeds		
05.2 Fermented Vegetables, Ready to Eat (e.g. Kimchi)	Yeast and Mold Count	Dilution Plating Method, BAM Online
	Coliform count E.coli	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
05.4 Dried Vegetables	E.coli	MPN Method, BAM Online
05.6 Peanut Butter and other Nut Butters	Salmonella	Oxoid Salmonella Rapid Test
05.7 Sun Dried Fruits	Yeast and Molds Count	Dilution Plating Method, BAM Online

	E.coli	MPN Method, BAM Online
06.0 Egg and Egg Products		
06.1 Pasteurized Egg Products	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
07.0 Cereals and Cereal Products		
07.1 Breakfast cereals	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast & Yeast like Fungi Count Mold Count	Dilution Plating Method, BAM Online
07.2 Cereals/Cereal Grains	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Pour Plate Method, BAM Online
	E.coli	MPN Method, BAM Online
07.4 Soya Flours, Concentrates and Isolates	Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
07.5 Flour, Corn meal, Corn grits, Semolina	Yeast and Yeast like Fungi Count Molds Count	Dilution Plating Method, BAM Online
07.7 Soy Protein	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Pour Plate Method, BAM Online
	E.coli	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
07.9 Pasta Products and	Aerobic Plate Count	Pour Plate Method, BAM Online

Noodles Uncooked (wet and dry)		
	Yeast and Mold Count	Pour Plate Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
07.10 Starch	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
08.0 Bakery Products		
08.1 Frozen Bakery products (ready to eat) with low-acid or high a_w fillings or toppings	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
08.2 Frozen Bakery Products (to be cooked) with low - acid or high a_w fillings or toppings (e.g. Meat pies, pizzas)	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
08.3 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and yeast like Fungi Count Mold Count	Dilution Plating Method, BAM Online
	E.coli	MPN Method, BAM Online
	<i>Salmonella</i>	Conventional Method, BAM Online
08.4 Frozen and Refrigerated Doughs	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Yeast like Fungi Count Mold Count	Dilution Plating Method, BAM Online

08.5 Baked Goods	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Molds Count	Dilution Plating Method, BAM Online
09.0 Ready to Eat Savouries		
09.1 Snack Foods	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast & Yeast like Fungi Count Mold Count	Dilution Plating Method, BAM Online
11.0 Fish and Fish Products		
11.1 Fresh and Frozen Fish and Cold-Smoked	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>E.coli</i>	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
11.2 Pre-Cooked Breaded Fish	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>E.coli</i>	MPN Method, BAM Online
11.3 Frozen Raw Crustaceans	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>E.coli</i>	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
11.4 Frozen Cooked Crustaceans	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>E.coli</i>	MPN Method, BAM Online
	Salmonella	Oxoid Salmonella Rapid Test
11.5 Cooked, Chilled and Frozen Crabmeat	Aerobic Plate Count	Pour Plate Method, BAM Online

	<i>E.coli</i>	MPN Method, BAM Online
11.6 Fresh and Frozen Bivalve Molluscs	Aerobic Plate Count	Pour Plate Method, BAM Online
	<i>E.coli</i>	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
12.0 Spices, Soups, Sauces, Salads and Protein Products		
12.1 Dry Mixes for Soup and Sauces	Aerobic Plate Count	Pour Plate, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
12.3 Spices	Aerobic Plate Count	Pour Plate Method, BAM Online
	Molds Count	Dilution Plating Method, BAM Online
12.4 Spices (ready to eat)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
12.5 Salad Dressing (e.g. Mayonnaise, Thousand Island, Ranch, French)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plating Method, BAM Online
	<i>Salmonella</i>	Conventional Method, BAM Online
13.0 Beverages		
13.1 Non-alcoholic beverages (e.g. Ready to drink softdrinks, iced tea, energy drinks)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plate Method Method, BAM Online
13.2 Frozen Juice Concentrate	Aerobic Plate Count	Pour Plate Method, BAM Online
	Yeast and Mold Count	Dilution Plate Method Method, BAM Online
	Aerobic Plate Count	Pour Plate Method, BAM Online

13.3 Powdered Beverages (e.g. Iced tea, powdered juice/mixes)		
14.0 Food for Infants and Young Children		
14.1 Powdered Infant Formula with or without added Lactic acid producing cultures (intended for 0 to 6 months)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count E.coli	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
14.2 Follow-up Formula/ Milk Supplement (Intended for infants 6 months on and for young children 12-36 months of age)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count E.coli	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
14.5 Dried and Instant products requiring reconstitution	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
14.6 Dried products requiring reconstitution and boiling before consumption	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
14.7 Cereal based foods for infants	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	MPN Method, BAM Online
	<i>Salmonella</i>	Oxoid Salmonella Rapid Test
IV. Water		
1.0 Bottled Water	E.coli	SMEWW