

**7. Department of Science and Technology – VIII  
Regional Standards and Testing Laboratory**

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 Field of Testing : Chemical Testing  
 Microbiological Testing

**Chemical Testing**

Product	Specific Test	Method Reference
<b>I. Foods</b>		
<b>.03 Dairy Products</b>		
1. All cheese made from pasteurized milk (cottage cheese, soft and semi-solid cheese) 2. Process cheese spread 3. Ice cream and sherbet plain and flavoured 4. Ice cream with added ingredients 5. Flavoured Ice 6. Milk powders (whole, nonfat of filled milk, buttermil, whey and whey protein concentrate 7. Sweetened condensed milk 8. Liquid milk (evaporated or ready to drink) and Cream (Ultra Heat Temperature/sterilized) 9. Pasteurized Milk 10. Pasteurized cream 11. Yogurt and other fermented milk	Ash	Gravimetric Method AOAC Method 943.46/930.30/935.42
.04 Meat, poultry and derived products		

1. Dried animal products 2. Meat paste and pate' 3. Cold cuts, frozen and chilled hotdogs, corned beef, luncheon meat 4. Packaged cooked cured/salted meat (ham, bacon) 5. Fermented, comminuted meat, no cooked (dry and semi dry fermented sausages) 6. Cooked poultry meat, frozen to be re-heated before eating (eg. prepared frozen meals) 7. Cooked poultry meat, frozen, ready to eat (eg. turkey rolls) 8. Cured/smoked poultry meat 9. Dehydrated poultry products 10. Fresh/frozen raw chicken (during processing) 11. Meat products in hermetically sealed containers	Ash	Gravimetric Method AOAC Method 920.153/923.03
	Moisture	Air-Oven Method AOAC Method 950.46B
<b>II. Waters</b>		
.02 Drinking water	Total Suspended Solids, TSS	Drying at 180°C SMEWW 23rd ed. 2540C

### Microbiological Testing

Product	Specific Test	Method Reference
<b>I. Foods</b>		
01 Milk and Dairy Products		
01.1 Milk Powders (e.g. whole nonfat or filled milk, buttermilk, whey & whey protein concentrate) (intended for children more than 36 months of age and adults)	Aerobic Plate Count	Pour Plate Method, BAM Online
01.2 Sweetened Condensed Milk	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold and Yeast Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online

01.4 Pasteurized Milk	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
01.5 Pasteurized Cream	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
01.6 Yogurt and other fermented milk	Coliform Count	Pour Plate Method, BAM Online
01.7 Cheese and chesse products e.g. cottage cheese; soft and semi-soft cheese (moisture > 39%, pH >5)	Coliform Count  <i>E.coli</i> Count	Pour Plate Method, BAM Online Multiple-Tube Fermentation Technique BAM Online
01.8 Processed Cheese Spread	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
02 Fats, Oils, and Fat Emulsions		
02.1 Butter (whipped, pasteurized)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Molds and Yeast Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
02.2 Butter made from unpasteurized milk or milk products	Aerobic Plate Count	Pour Plate Method, BAM Online
02.2 Butter made from unpasteurized milk or milk products	Coliform Count  <i>E.coli</i> Count	Pour Plate Method, BAM Online Multiple-Tube Fermentation Technique BAM Online
02.3 Margarine	Aerobic Plate Count  Mold and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method BAM Online

03 Edible Ices including Sherbet and Sorbet		
03.1 Ice Cream & Sherbet (plain and flavored)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
03.2 Ice Cream with added ingredients (nuts, fruits, cocoa, etc.)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
03.3 Flavored Ice (e.g. ice candy)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold and Yeast Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
04 Confectionaries		
04.1 Cocoa Powder	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
04.2 Chocolate Products	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
04.3 Chocolate Confectionaries (chocolate bars, blocks, bonbons)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
04.4 Sugar Confectionaries (hard & soft candies, caramel, fondants, creams, nougats and pastes)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Mold Count	Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
05 Fruits and Vegetables, Nuts and Seeds		

05.2 Fermented Vegetables, ready to eat (e.g. Kimchi)	Mold and Yeast Count <i>E. coli</i> Count	Spread Plate Method, BAM Online Multiple-Tube Fermentation Technique BAM Online
05.5 Dessicated Coconut	Aerobic Plate Count  Mold Count	Pour Plate Method, BAM Online Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
05.7 Sun Fruits	Mold Count	Spread Plate Method, BAM Online
06 Egg and Egg Products		
06.1 Pasteurized Egg Products (liquid, frozen or dried)	Aerobic Plate Count  Mold Count	Pour Plate Method, BAM Online Spread Plate Method BAM Online
07 Cereals and Cereal Products		
07.1 Breakfast Cereals	Mold Count Yeast & Yeastlike fungi  Aerobic Plate Count	Spread Plate Method BAM Online  Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
07.2 Cereals/Cereal Grains	Aerobic Plate Count  Mold Count	Pour Plate Method, BAM Online Spread Plate Method BAM Online
	Coliform Count	Pour Plate Method, BAM Online
07.4 Soya Flours Concentrates and Isolates	Mold Count	Spread Plate Method, BAM Online
07.5 Frozen Corn meal, Corn grits, Semolina	Mold Count Yeast & Yeastlike fungi	Spread Plate Method, BAM Online

	Coliform Count	Pour Plate Method, BAM Online
07.6 Soy Protein	Aerobic Plate Count  Mold Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
07.8 Pasta Products and Noodles Uncooked (wet & dry)	Aerobic Plate Count  Molds and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
07.9 Starch	Aerobic Plate Count  Molds and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
08 Bakery Products		
08.3 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count Moulds Count Yeast & Yeastlike Fungi Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
08.4 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count Moulds Count Yeast & Yeastlike Fungi Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
08.5 Baked Goods (microbiologically sensitive types e.g. containing eggs & dairy products)	Aerobic Plate Count  Molds and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online

08.6 Coated and Filled, Dried Shelf-Stable Biscuits	Coliform Count	Pour Plate Method, BAM Online
09 Ready to Eat Savouries		
09.1 Snack Foods	Aerobic Plate Count Moulds Count Yeast & Yeastlike Fungi Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
10.0 Meat and Meat Products		
10.3 Cold Cuts, Frozen & Chilled Hot Corn Beef, Lucheon Meat	Aerobic Plate Count	Pour Plate Method, BAM Online
11 Fish and Fish Products		
11.1 Fresh Forozen Fish and Cold-Smoked	Aerobic Plate Count	Pour Plate Method, BAM Online
11.2 Pre-Cooked Breaded Fish	Aerobic Plate Count	Pour Plate Method, BAM Online
11.4 Frozen Raw Crustaceans	Aerobic Plate Count	Pour Plate Method, BAM Online
11.5 Cooked, Chilled & Frozen Crabmeat	Aerobic Plate Count	Pour Plate Method, BAM Online
11.6 Fresh and Frozen Bivalve Mollusks	Aerobic Plate Count	Pour Plate Method, BAM Online
12.0 Spices, Soups, Sauces, Salad, and Protein Products		
12.1 Dry Mixes for Soup and Sauces	Aerobic Plate Count Molds and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
12.3 Spices	Aerobic Plate Count Mold Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
12.4 Spices (ready to eat)	Aerobic Plate Count Mold Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online

	Coliform Count	Pour Plate Method, BAM Online
12.5 Salad Dressing, pH $\leq$ 4.6 (e.g. Mayonaise, Thousand Island, Ranch, French)	Aerobic Plate Count  Mold and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
13.0 Beverages		
13.1 Non Alcoholic Beverages (e.g. ready to drink, soft drinks, iced tea, energy drinks)	Aerobic Plate Count  Mold and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
13.2 Frozen Juice Concentrate	Aerobic Plate Count  Mold and Yeast Count	Pour Plate Method, BAM Online Spread Plate Method, BAM Online
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 month old)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
14.2 Follow-up Formula/ Milk Supplement (intended for infants 6 months on and for young children 12-36 months age)	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
14.5 Dried and Instant Products requiring reconstitution	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
14.5 Dried Products requiring reconstitution and boiling before consumption	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online
14.6 Cereal based foods for infants	Aerobic Plate Count	Pour Plate Method, BAM Online
	Coliform Count	Pour Plate Method, BAM Online



<b>IV. Water</b>		
Bottled Water	Heterotrophic Plate Count	Pour Plate Method SMEWW 23rd ed.
	Total Coliform Count    Fecal coliform Count <i>E.coli</i> count	Multiple-Tube Fermentation Technique SMEWW 23rd ed.