

6. GCH Center for Food Safety and Quality, Inc.

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 Field of Testing : Microbiological Testing

01. Milk and Dairy Products		
01.1 Milk powder and cream powder	Aerobic Plate Count Salmonella	BAM Chapter 3, 8th ed. Conventional, BAM Chapter 5, 8th ed.
01.2 Sweetened Condensed Milk	Aerobic Plate Count Coliform Count Yeast and Mold Count	BAM Chapter 3, 8th ed. BAM Chapter 4, 8th ed. Conventional, BAM Chapter 18, 8th ed.
01.3 Pasteurized Milk	Aerobic Plate Count Coliform Count Salmonella	BAM Chapter 3, 8th ed. BAM Chapter 4, 8th ed. Conventional, BAM Chapter 5, 8th ed.
01.4 Pasteurized Cream	Aerobic Plate Count Coliform Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed. Conventional, BAM Chapter 5, 8th ed.
01.5 Yogurt and other fermented milk	Coliform Count Salmonella Staphylococcus aureus	BAM Chapter 4, 8th ed. Conventional, BAM Chapter 5, 8th ed BAM Chapter 12, 8th ed.
01.6 Cheese and Cheese Products; e.g. Cottage Cheese; Soft and semi-soft cheese	Salmonella Staphylococcus aureus Coliform count E.coli	Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed. MPN Method, BAM Chapter 4, 8th ed.

01.7 Processed Cheese Spread	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	BAM Chapter 4, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed
01.8 All Raw Milk Cheese; Raw Milk Un-ripened cheese with moisture>50%, pH>5.0	Salmonella	Conventional, BAM Chapter 5, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed.
02 Fats, Oils and Fat Emulsions		
02.1 Butter (whipped, pasteurized)	Aerobic Plate Count	BAM Chapter 3, 8th ed.;
	Yeast and Mold Count	Conventional, BAM Chapter 18, 8th ed.
	Coliform Count	BAM Chapter 4, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed.
02.2 Butter made from unpasteurized milk or milk products	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	BAM Chapter 4, 8th ed
	E.coli	MPN Method, BAM Chapter 4, 8th ed
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed
02.3 Margarine	Aerobic Plate Count	BAM Chapter 3, 8th ed.;
	Fecal Coliform	MPN Method, BAM Chapter 4, 8th ed
	Yeast and Mold Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed.
03.03. Edible Ices, Including Sherbet and Sorbet		
03.1 Ice Cream & Sherbet (plain and flavored)	Aerobic Plate Count	BAM Chapter 3, 8th ed.;
	Coliform Count	BAM Chapter 4, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed.

03.2 Ice Cream with added ingredients (nuts, fruits, cocoa)	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	BAM Chapter 4, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
	Staphylococcus aureus	BAM Chapter 12, 8th ed
03.3 Flavored Ice	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	MPN, BAM Chapter 4, 8th ed
	Yeast and Mold Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
04. Confectioneries		
04.1 Cocoa Powder	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	MPN, BAM Chapter 4, 8th ed
	Molds Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
04.2 Chocolate Products	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	MPN, BAM Chapter 4, 8th ed
	Molds Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
04.3 Chocolate Confectionaries (chocolate bars, blocks, bonbons)	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	MPN, BAM Chapter 4, 8th ed
	Molds Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
04.4 Sugar Confectionaries (Hard and soft candies, toffees, caramel, fondants, creams, nougats and pastes)	Aerobic Plate Count	BAM Chapter 3, 8th ed.
	Coliform Count	MPN, BAM Chapter 4, 8th ed
	Molds Count	Conventional, BAM Chapter 18, 8th ed.
	Salmonella	Conventional, BAM Chapter 5, 8th ed.
05. Fruits and Vegetables, Nuts and Seeds		

05.1 Frozen Vegetables and Fruits	E.coli	MPN, BAM Chapter 4, 8th ed
05.2 Fermented Vegetables, Ready to Eat (e.g. Kimchi)	Yeast and Mold Count Coliforms E.coli Salmonella Staphylococcus aureus	Conventional, BAM Chapter 18, 8th ed. MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed
05.3 Dried Vegetables	E.coli	BAM Chapter 4, 8th ed.
05.4 Peanut Butter and other Nut Butters	Salmonella	Conventional, BAM Chapter 5, 8th ed.
05.5 Sun Dried Fruits	Molds Count E.coli	Conventional, BAM Chapter 18, 8th ed. BAM Chapter 4, 8th ed.
06. Egg and Egg Products		
06.1 Pasteurized Egg Products	Aerobic Plate Count Coliform Count Yeast and Molds Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
07. Cereals and Cereal Products		
07.1 Breakfast cereals	Aerobic Plate Count Coliform Count Yeast Count Molds Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed.
07.2 Cereals/Cereal Grains	Aerobic Plate Count Coliform Count E.coli Yeast and Mold Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed.

07.3 Soya Flours, Concentrates and Isolates	Molds Count Salmonella	Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
07.4 Flour, Corn meal, Corn grits, Semolina	Yeast Count Molds Count Coliform Count	Conventional, BAM Chapter 18, 8th ed. BAM Chapter 4, 8th ed
07.5 Soy Protein	Aerobic Plate Count Coliform Count E.coli Yeast and Molds Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
07.6 Tofu	E.coli Staphylococcus aureus	MPN, BAM Chapter 4, 8th ed BAM Chapter 12, 8th ed.
07.7 Pasta Products and Noodles Uncooked (wet and dry	Aerobic Plate Count Coliform Count Yeast and Molds Count Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
07.8 Starch	Aerobic Plate Count Coliform Count Yeast and Molds Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
08. Bakery Products		
08.1 Frozen Bakery products (ready to eat) with low-acid or high aw fillings or toppings	Salmonella Staphylococcus aureus	Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
08.2 Frozen Bakery products (ready to eat) with low-acid or high aw fillings or toppings	Salmonella Staphylococcus aureus	Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.

08.3 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count Coliform Count E.coli Yeast Count Mold Count Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
08.4 Frozen and Refrigerated Doughs	Aerobic Plate Count Coliform Count Yeast Count Mold Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed.
08.5 Baked Goods	Aerobic Plate Count Coliform Count Yeast Count Mold Count Staphylococcus aureus	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. BAM Chapter 12, 8th ed.
08.6 Coated or Filled, Dried Shelf-Stable Biscuits	Coliforms Salmonella	MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed.
09. Ready to Eat Savouries		
09.1 Snack Foods	Aerobic Plate Count Yeast Count Mold Count Coliform Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed.
10. Fish and Fish Products		

10.1 Fresh and Frozen Fish and Cold-Smoked	Aerobic Plate Count E.coli Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed. MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
10.2 Pre-Cooked Breaded Fish	Aerobic Plate Count E.coli Staphylococcus aureus	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed BAM Chapter 12, 8th ed.
10.3 Frozen Raw Crustaceans	Aerobic Plate Count E.coli Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
10.4 Frozen Cooked Crustaceans	Aerobic Plate Count E.coli Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
10.5 Cooked, Chilled and Frozen Crabmeat	Aerobic Plate Count E.coli Staphylococcus aureus	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed BAM Chapter 12, 8th ed.
10.6 Fresh and Frozen Bivalve Molluscs	Aerobic Plate Count E.coli Salmonella	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed.
11. Spices, Soups, Sauces, Salads and Protein Products		

11.1 Dry Mixes for Soup and Sauces	Aerobic Plate Count Coliform Count Yeast and Molds Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
11.2 Yeast	Salmonella	Conventional, BAM Chapter 5, 8th ed.
11.3 Spices	Aerobic Plate Count Molds Count	BAM Chapter 3, 8th ed.; Conventional, BAM Chapter 18, 8th ed.
11.4 Spices (ready to eat)	Aerobic Plate Count Coliform Count Molds Count Salmonella Staphylococcus aureus	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed. BAM Chapter 12, 8th ed.
11.5 Salad Dressing (e.g. Mayonnaise, Thousand Island, Ranch, French)	Aerobic Plate Count Yeast and Molds Count Salmonella	BAM Chapter 3, 8th ed.; Conventional, BAM Chapter 18, 8th ed. Conventional, BAM Chapter 5, 8th ed.
12. Beverages		
12.1 Non-alcoholic beverages (canned/bottled fruit and vegetable juices, energy drinks and particulated drinks, carbonated and non-carbonated water- based flavoured drinks and concentrates (liquid or solid) for water-based flavoured drinks)	Aerobic Plate Count Coliform Count Yeast and Molds Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 18, 8th ed.
12.2 Frozen Juice Concentrate	Aerobic Plate Count Yeast and Molds Count	BAM Chapter 3, 8th ed.; Conventional, BAM Chapter 18, 8th ed.

12.3 Powdered Beverages (e.g. Iced tea, powdered juice/mixes)	Aerobic Plate Count Coliform Count	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed
13. Food for Infants and Young Children		
13.1 Powdered Infant Formula with or without added Lactic acid producing cultures (intended for 0 to 6 months)	Salmonella Coliform count E.coli	Conventional, BAM Chapter 5, 8th ed. MPN, BAM Chapter 4,8th ed
13.2 Follow-up Formula/ Milk Supplement (Intended for infants 6 months on and for young children 12-36 months of age)	Salmonella Coliform count E.coli	Conventional, BAM Chapter 5, 8th ed. MPN, BAM Chapter 4, 8th ed
13.3 Dried and Instant products requiring reconstitution	Coliform Count Aerobic Plate Count Salmonella	MPN, BAM Chapter 4, 8th ed BAM Chapter 3, 8th ed.; Conventional, BAM Chapter 5, 8th ed.
13.4 Dried products requiring reconstitution and boiling before consumption	Aerobic Plate Count Coliform Count Salmonella	BAM Chapter 3, 8th ed.; BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed.
13.5 Cereal based foods for infants	Aerobic Plate Count Coliform Salmonella	BAM Chapter 3, 8th ed.; MPN, BAM Chapter 4, 8th ed Conventional, BAM Chapter 5, 8th ed.
16. Water		
16.1 Bottled water	Heterotrophic Plate Count Coliform count E.coli	SMEWW 21 st Ed. 2012 SMEWW 21 st Ed. 2012