

3. F.A.S.T Laboratories

The First Analytical Services and Technical Cooperative (Cagayan De Oro)

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Field of Testing : Chemical Testing and Microbiological Testing

Chemical Testing

Products	Specific Test	Method/Reference Standard
I. Foods		
1.0 Milk and Dairy Products		
01.1 Milk powder and cream powder	Moisture	Method 990.20, Oven Drying Method, AOAC 19 th ed., 2012
01.2 Whey and whey products	Fat	Method 989.05/932.06, Mojonnier Extraction AOAC 19 th ed., 2012
	Protein	Method 991.20/930.29, Kjeldahl Modified Method, AOAC 19 th ed. 2012
	Ash	Method 945.46/930.30, Ignition, AOAC 19 th ed. 2012
05.0 Fruits and vegetables, seaweeds, nuts and seeds		
05.1 Frozen vegetables and fruits	Lead (Pb) Cadmium (Cd)	Method 999.11, AOAC 19 th Edition

<p>05.3 Fruits and vegetable products in hermetically sealed container</p> <p>05.4 Dried fruits and vegetables, seaweeds, nuts and seeds</p> <p>05.5 Coconut (desiccated)</p>		
07.0 Cereals and cereal products		
<p>07.1 Breakfast cereals</p> <p>07.2 Cereal/cereal grains</p> <p>07.3 Cultured seeds and grains</p> <p>07.4 Soya flours concentrates and isolates</p> <p>07.5 Flour, corn meal, corn grits, semolina</p> <p>07.6 Frozen entrees containing rice or corn flour</p> <p>07.7 Soy protein</p> <p>07.8 Tofu</p> <p>07.9 Pasta products and noodles (e.g rice paper, rice vermicelli, soybean pastas and noodles)</p> <p>07.10 Starch</p> <p>07.11 Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)</p> <p>07.12 Batters (e.g., for breading or batters for fish or poultry)</p>	<p>Moisture</p> <p>Fat</p> <p>Protein</p> <p>Ash</p>	<p>Method 925.10, AOAC 19th ed., 2012</p> <p>Method 922.06, AOAC 19th ed., 2012</p> <p>Method 979.09, AOAC 19th ed. 2012</p> <p>Method 923.03, AOAC 19th ed. 2012</p>
II. Water		
<p>Bottled Water</p>	<p>Manganese</p> <p>Iron</p> <p>Zinc</p> <p>Nickel</p> <p>Chromium</p> <p>Copper</p> <p>pH</p> <p>Conductivity</p>	<p>AAS/ 3030F, 3111B SMEWW 21st Ed., 2005</p> <p>Glass electrode method/ SMEWW 22nd Ed. 2012</p>

Microbiological Testing

Product	Specific Test	Method Reference
I. Foods		
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
01.2 Sweetened Condensed Milk	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
01.4 Pasteurized Milk	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
01.5 Pasteurized Cream	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
01.6 Yogurt and other fermented milk	Coliform Count	Pour Plate Method, BAM
01.7 Cheese and chesse products e.g. cottage cheese; soft and semi-soft cheese (moisture > 39%, pH >5)	Coliform Count	MPN Method, BAM
01.8 Processed Cheese Spread	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
02 Fats, Oils, and Fat Emulsions		
02.1 Butter (whipped, pasteurized)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
02.2 Butter made from unpasteurized milk or milk products	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM

02.3 Margarine	Aerobic Plate Count	Pour Plate Method, BAM
03 Edible Ices including Sherbet and Sorbet		
03.1 Ice Cream & Sherbet (plain and flavored)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
03.2 Ice Cream with added ingredients (nuts, fruits, cocoa, etc.)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
03.3 Flavored Ice (e.g. ice candy)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
04 Confectionaries		
04.1 Cocoa Powder	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
04.2 Chocolate Products	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
04.3 Chocolate Confectionaries (chocolate bars, blocks, bonbons)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
04.4 Sugar Confectionaries (hard & soft candies, caramel, fondants, creams, nougats and pastes)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
05 Fruits and Vegetables, Nuts and Seeds		
05.2 Fermented Vegetables, ready to eat (e.g. Kimchi)	Coliform Count	MPN Method, BAM
06 Egg and Egg Products		
06.1 Pasteurized Egg Products (liquid, frozen or dried)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
07 Cereals and Cereal Products		
07.1 Breakfast Cereals	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM

07.2 Cereals/Cereal Grains	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
07.6 Soy Protein	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
07.8 Pasta Products and Noodles Uncooked (wet & dry)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
07.9 Starch	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
08 Bakery Products		
08.3 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
08.4 Frozen and Refrigerated Doughs (Chemically leavened)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
08.5 Baked Goods (microbiologically sensitive types e.g. containing eggs & dairy products)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
08.6 Coated and Filled, Dried Shelf-Stable Biscuits	Coliform Count	MPN Method, BAM
09 Ready to Eat Savouries		
09.1 Snack Foods	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
10.0 Meat and Meat Products		
10.3 Cold Cuts, Frozen & Chilled Hot Corn Beef, Luncheon Meat	Aerobic Plate Count	Pour Plate Method, BAM
11 Fish and Fish Products		

11.1 Fresh Forozen Fish and Cold-Smoked	Aerobic Plate Count	Pour Plate Method, BAM
11.2 Pre-Cooked Breaded Breaded Fish	Aerobic Plate Count	Pour Plate Method, BAM
11.4 Frozen Raw Crustaceans	Aerobic Plate Count	Pour Plate Method, BAM
11.5 Cooked, Chilled & Frozen Crabmeat	Aerobic Plate Count	Pour Plate Method, BAM
11.6 Fresh and Frozen Bivalve Mollusks	Aerobic Plate Count	Pour Plate Method, BAM
12.0 Spices, Soups, Sauces, Salad, and Protein Products		
12.1 Dry Mixes for Soup and Sauces	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
12.3 Spices	Aerobic Plate Count	Pour Plate Method, BAM
12.4 Spices (ready to eat)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
12.5 Salad Dressing, pH < 4.6 (e.g. Mayonaise, Thousand Island, Ranch, French)	Aerobic Plate Count	Pour Plate Method, BAM
13.0 Beverages		
13.1 Non Alcoholic Beverages (e.g. ready to drink, soft drinks, iced tea, energy drinks)	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
13.2 Frozen Juice Concentrate	Aerobic Plate Count	Pour Plate Method, BAM
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
	Coliform Count	MPN Method, BAM
14.2 Follow-up Formula/ Milk Supplement (intended for infants 6 months on and	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM

for young children 12-36 months age)		
14.5 Dried and Instant Products requiring reconstitution	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
14.5 Dried Products requiring reconstitution and boiling before consumption	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	Pour Plate Method, BAM
14.6 Cereal based foods for infants	Aerobic Plate Count	Pour Plate Method, BAM
	Coliform Count	MPN Method, BAM
II. Water		
Bottled Water	Heterotrophic Bacteria	Method 9215B SMEWW 22nd ed
	Coliform Count	Method 9221 B-C SMEWW 22nd ed