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# LISTING OF INDEPENDENT ANALYTICAL AND MICROBIOLOGICAL TESTING SERVICES

03/09

Allergens  
Beverage Testing  
Chemistry Analyses  
Dairy Testing  
Environmental Testing  
Extraneous Testing  
Fats and Oils  
Microbiological Analyses  
Package Testing  
Pesticides  
Physical Testing  
Preservatives and  
Additives  
Raw Materials Testing  
Sweeteners and Sugars  
Toxins  
Vitamins  
Water Testing



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## Sample Submission:

Sample submissions should be made using a **Sample Order Form** can be download from our website at [www.northlandlabs.com](http://www.northlandlabs.com).

Different versions and customizable forms are available on our website.

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### *Shipment of samples:*

Northland Laboratories receives samples shipped from all different regions of the world. Please submit samples to the proper address of Northland Laboratories listed above. If you need assistance with International Shipments, please contact us

**ALLERGENS**

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Almond Allergen	VERATOX	PPM
Egg Allergen, EIA	EIA	PPM DL: 2.5 PPM
Gluten, Wheat (Qualitative)	EIA	
Gluten, Wheat (Quantitative)	EIA	PPB MDL: 5 PPB
Milk Allergen, EIA	EIA	PPM DL: 2.5 PPM
Peanut Protein, EIA	EIA	PPM DL: 2.5 PPM
Soy Allergen	EIA	PPM LOD: 2.5PPM

**BEVERAGE TESTING**

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Alcohol at 15.56 Deg C by Distillation		PERCENT
Alcohol by GC (%)	AOAC 973.23, MODIFIED	PERCENT
Alcohol by GC, ppm	AOAC 973.23, MODIFIED	PPM
Alicyclobacillus	COMPENDIUM OF METHODS FOR THE MICROBIOLOGICAL EXAMINATION OF FOOD	CFU/G
Carbon Dioxide, CO2 (Zahm)	ZAHM	VOLUME
Metal Scan ASBC	ASBC	PPM
pH of Alcoholic Beverages		
Volatile Organic Compounds in Beer by GC	GC	PPM

**CHEMISTRY**

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acetic Acid by HPLC	HPLC	PERCENT IDL: 0.0050%
Acetone Insoluble Matter, FCC	FCC	PERCENT
Acidity, Total as Malic	AOAC	G/L
Ash 550-575 Deg C (Overnight)	AOAC 923.03	PERCENT
Brix, Percent Solids		PERCENT
Butyric Acid by HPLC	HPLC	PERCENT IDL: 0.0100%
Caffeine by HPLC	HPLC	PERCENT
Calories (Calculation)	CALCULATION	PER 100G
Capsaicinoids (Scoville Heat)	AOAC 995.03	SHU
Carbohydrates (Calculation)	CALCULATION	PERCENT
Carbon Dioxide, CO2 (Chittick)	AOAC 923.02	PERCENT
Carbon Dioxide, CO2 (Zahm)	ZAHM	VOLUME
Chloride (%), Volhard	AOAC 986.26	PERCENT
Citric Acid by HPLC	HPLC	PPM
Color, ASTA	ASTA	
Color, Ester 5	ESTER 5	
Color, Gardner		
Color, Hunter	MINOLTA CHROMA METER CR-300	
Color, Lovibond		
Crude Fiber	AOAC 962.09	PERCENT
Curcumin in Turmeric	ASTA 18.0	PERCENT
Dehydroacetic Acid by HPLC	HPLC	PERCENT
Erythromycin	AOAC 13TH EDITION 1980, 42.196-42.901	
Ethyl Vanillin by HPLC, %	AOAC 990.25	PERCENT
Ethylene Glycol by HPLC, %	HPLC	PERCENT
Fumaric Acid by HPLC	HPLC	PERCENT
Headspace Analysis (CO2, N2, O2)	ASTM	PERCENT
Inosine, HPLC	HPLC	PERCENT
Insoluble Dietary Fiber		PERCENT
Inulin by HPLC	HPLC	PERCENT
Iodine by HPLC	AOAC 992.22	PPM
Isopropyl Alcohol by GC	GC	PPM
Lactic Acid by HPLC	HPLC	PERCENT IDL: 0.0100%
L-Carnitine Assay by HPLC	HPLC	PERCENT
Lecithin	AOAC 949.07 MODIFIED	PERCENT MDL: 0.05%

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Maleic Acid by HPLC	HPLC	PERCENT IDL: 0.0100%
Malic Acid by HPLC	HPLC	PERCENT IDL: 0.0100%
Melamine and Related Analogs	FDA CVM VER 2.1	MCG/G DL: 2.5 MCG/G
Menthol by GC	GC	PERCENT
Mercury		PPM
Methanol by GC, ppm	GC	PPM
Methyl Salicylate by GC	GC	PERCENT
Moisture Protein Ratio	MOISTURE DRYING OVEN, PROTEIN BY COMBUSTION	
Moisture, Drying Oven	AOAC 931.04	PERCENT
Moisture, Flour		PERCENT
Moisture, Toluene Distillation %		PERCENT
Moisture: Karl Fischer	KARL FISCHER, AOAC or USP	PERCENT
Moisture: Vacuum Oven (100 C)	AOAC	PERCENT
Nitrates in Food by HPLC	HPLC	PPM
Nitric Acid by HPLC	HPLC	PPM
Nitrites in Food by HPLC	HPLC	PPM
Nitrogen (%), Leco	AOAC 990.03 MODIFIED	PERCENT
Non-Casein Nitrogen (%)	AOAC 998.05 MODIFIED	PERCENT
Non-Protein Nitrogen (%), Leco	AOAC 991.21 MODIFIED	PERCENT
Organic Acids by HPLC, 5 acids included	HPLC	
Peroxide Value	AOAC 965.33	MEQ/KG
pH of Foods	AOAC 981.12	
Propionic Acid, HPLC	HPLC	PERCENT IDL: 0.0025%
Propylene Glycol by HPLC, ppm	HPLC	PPM
Protein Free Fat (Includes protein and fat)	AOAC 993.13 & AOAC 963.15	PERCENT
Protein on Dry Basis (Moisture Included), Leco	AOAC 992.15, 992.23	PERCENT
Protein, Leco	AOAC 992.15, 992.23	PERCENT
Quinic Acid by HPLC	HPLC	PERCENT
Refractive Index	AOAC 970.59 MODIFIED	
Residual Ethanol by GC	AOAC 973.23 MODIFIED	PPM
Residual Solvents by GC	GC	
Salt by Chloride Analyzer	CHLORIDE ANALYZER	PERCENT
Salt, Dicromat	DICROMAT	PERCENT
Salt, Volhard	AOAC 935.43, 935.47, 937.09	PERCENT
Saponification Value	AOAC 920.16	
Scorched Particles		
Solids by Drying Oven	AOAC 931.04	PERCENT
Solids by Karl Fisher	AOAC or USP	PERCENT
Solids by Vacuum Oven	AOAC 925.45 PART A	PERCENT
Soluble Ash		PERCENT OF ASH
Soluble Dietary Fiber		PERCENT
Specific Gravity	AOAC 955.37	
Succinic Acid by HPLC	HPLC	PERCENT
Sulfate, gravimetric	AOAC 951.05	PERCENT
Sulfite, Optimized Monier-Williams	AOAC 990.28	PPM DL: 1 PPM
Theobromine by HPLC	HPLC	PPM
Theophylline by HPLC	HPLC	PPM
Thiabendazole	HPLC	PPB D.L.: 5 PPB
Titrateable Acidity	AOAC 947.05	
Total Dietary Fiber, %	AOAC 985.29	PERCENT
Total Dietary Fiber, Insoluble Fiber and Soluble Fiber	AOAC 991.43	PERCENT
Unsaponifiables	AOCS CA 68.40	PERCENT
Vanilla Flavor Compounds by HPLC	AOAC 990.25	PPM
Vanillic Acid	AOAC 990.25	
Vanillin by Spectrophotometer	AOAC 966.12	
Vanillin, HPLC (Vanilla)	AOAC 990.25	PERCENT
Volatile Oils	ASTA 16.0	PERCENT
Water Activity	AOAC 978.18 MODIFIED	
Water Phase Salt		PERCENT

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Whey Protein Nitrogen, Leco		MG/G

#### DAIRY CHEMISTRY

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acid Degree Value, Dairy	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Antibiotics, Finished Product, Delvotest P	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Antibiotics in Milk, Delvotest P	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Antibiotics (ROSA)	STD METHOD FOR EXAMINATION OF DAIRY PRODUCTS & CHARM SL ROSA	
Chlorine, Residual (In Milk)	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Fat, Babcock	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	PERCENT
Fat, Modified Acid Hydrolysis (Roese-Gottlieb)	AOAC 989.05	PERCENT
Moisture, Vacuum Oven (100 C)	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	PERCENT
Nitrates in Cheese	AOAC	PPM
Nitrites in Cheese	AOAC	PPM
Phosphatase Screen, Cheese	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Phosphatase Screen, Dairy	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Phosphatase Screen, Milk	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Salt, Chloride Analyzer	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	PERCENT
Scorched Particles	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	
Solids, Drying Oven (in Milk)	AOAC 990.19	PERCENT
Solids, Vacuum Oven (100 C)	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	PERCENT
Titrateable Acidity in Dairy Products	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	

#### ENVIRONMENTAL TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
PABA, p-Amino Benzoic Acid	DELVO	
Treated with Pencillinase	DELVO	

#### EXTRANEIOUS TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Extraneous Material: Alimentary Pastes	AOAC 969.41	PER 225 GRAMS
Extraneous Material: Cheese		
Extraneous Material: Chocolate		
Extraneous Material: Cinnamon	AOAC 968.38	
Extraneous Material: Citrus & Pineapple Juice	AOAC 970.72	PER 250 ML
Extraneous Material: Cocoa/Chocolate	AOAC 965.38	PER 50 GRAMS
Extraneous Material: Condiments and Spices	AOAC 975.48	
Extraneous Material: Coriander, Ginger, Celery Seed, Pepper	AOAC 977.24	
Extraneous Material: Corn Meal	AOAC 981.19 MODIFIED	PER 50 GRAMS
Extraneous Material: Dried Mushrooms	AOAC 967.24B	
Extraneous Material: Dried Peppers	MACROANALYTICAL PROCEDURE MANUAL, CHAPTER 5, FDA	
Extraneous Material: Filth in Green Leaf Vegetables	AOAC 974.33	
Extraneous Material: Flour	AOAC 972.32	PER 50 GRAMS
Extraneous Material: Fruit/Fruit Paste	AOAC 964.23	PER 100 GRAMS
Extraneous Material: Grains & Seeds	AOAC 950.86	
Extraneous Material: Hard Candy	AOAC 971.34	

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Extraneous Material: Heavy Filth	AOAC 970.66	PER 100 G
Extraneous Material: Rice (per 2.5 kg)	FDA GUIDELINES FOR RICE, MICROSCOPIC FILTH & EXTRANEIOUS MATERIAL	
Extraneous Material: Rice Sticks	AOAC 982.32	
Extraneous Material: Sesame Seeds	AOAC 975.49	
Extraneous Material: Spices	AOAC 965.40	
Extraneous Material: Sugar	AOAC 945.80	PER 100 GRAMS
Extraneous Material: Syrups/Honey	AOAC 945.79	PER 200 GRAMS
Extraneous Material: Tortillas/Bread	AOAC 970.70 MODIFIED	

#### FATS and OILS

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Cholesterol by GC	U.S. FDA LIPID MANUAL 1992	MG/100G
Conjugated Linoleic Acid (CLA)	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT
Docosahexaenoic Acid by GC	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT OF TOTAL FAT
Eicosapentaenoic Acid by GC	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT OF TOTAL FAT
Fat on Dry Basis, Includes Moisture		PERCENT
Fat, Acid Hydrolysis	AOAC 935.39, 948.15, or 950.54	PERCENT
Fat, Babcock		PERCENT
Fat, Crude		PERCENT
Fat, Modified Acid Hydrolysis (Roese-Gottlieb)	AOAC 989.05	PERCENT
Fat, Soxhlet	AOAC 963.15	PERCENT
Fatty Acid Profile by GC with trans Fatty Acids, % of fat	AOAC 996.06 & AOCS CE/C - 89 (92)	PERCENT OF FAT
Fatty Acid Profile by GC with trans Fatty Acids, g/serving	AOAC 996.06 & AOCS CE/C - 89 (92)	G/SERVING
Fatty Acid Profile by GC, % of fat	AOAC 996.06 & AOCS CE/C - 89 (92)	PERCENT OF FAT
Fatty Acid Profile by GC, g/serving	AOAC 996.06 & AOCS CE/C - 89 (92)	G/SERVING
Free Fatty Acid, Finished Product (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50	PERCENT
Free Fatty Acid, Oil (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50	PERCENT
Free Fatty Acids by GC	GC	PPM OF FAT
Hydroxyl Value	AOCS CD 4-40	
Impurities, Soluble and Insoluble	AOCS CA 3.46	PERCENT
Iodine Value	AOAC 993.20	
Moisture, AOCS	AOCS CA 2C.25	PERCENT
Omega-3 Polyunsaturates by GC	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT
Omega-6 Polyunsaturates by GC	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT
Peroxide Value	AOAC 965.33	MEQ/KG
Saturated Fat, from Fatty Acid Profile	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT OF FAT
Thiobarbituric Acid (TBA) by Distillation	J.A. OIL CHEMIST SOCIETY, VOL 37 #1, PG.44-48 DISTILLATION METHOD	MG/KG
Titer	AOCS CA 12.59	DEG C
Trans Fatty Acids by GC	AOAC 996.06 & AOCS CE/C - 89 (92)	PERCENT OF FAT
Trans Fatty Acids by GC with Total Fat	AOAC 996.06 & AOCS CE/C - 89 (92)	G/100 G
trans-Vaccenic Acid (TVA) by GC	AOAC 963.22 MODIFIED & AOCS CE/C - 89 (92)	PERCENT

#### MICROBIOLOGY

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acid Preservative Resistant Yeast, APRY		CFU/G
Aerobic Plate Count (AOAC)	AOAC 966.23	CFU/G
Aerobic Plate Count (FDA/BAM)	BAM METHOD CHAPTER 3	CFU/G
Aerobic Plate Count (Petrifilm)	FDA/BAM CHAPTER 4	CFU/G
Aerobic Spore Count	APHA	CFU/G
Air Plate (APC)	FDA/BAM CHAPTER 3	
Air Plate (Yeast/Mold)	APHA	

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Alicyclobacillus	COMPENDIUM OF METHODS FOR THE MICROBIOLOGICAL EXAMINATION OF FOOD	CFU/G
Anaerobic Plate Count		CFU/G
Anaerobic Spore Count	APHA	CFU/G
Bacillus Cereus (AOAC)	AOAC 980.31	CFU/G
Clostridium Perfringens Count (AOAC)	AOAC 976.30	CFU/G
Coliform (MPN) AOAC	AOAC 966.23	MPN/G
Coliform Confirmation	BAM METHOD, CHAPTER 4	CFU/G
Coliform Count (MPN)	BAM METHOD, CHAPTER 4 & APPENDIX 2	MPN/G
Coliform Count (Petrifilm)	BAM METHOD, CHAPTER 4, 3M PETRIFILM	CFU/G
Coliform Count (VRBA)	BAM METHOD, CHAPTER 4	CFU/G
Coliform/E. Coli Count (MPN)	BAM METHOD, CHAPTER 4 & APPENDIX 2	MPN/G
Coliform/E. Coli Count (MPN) AOAC	AOAC 966.23	MPN/G
Coliform/E. Coli Count (Petrifilm)	FDA/BAM CHAPTER 4	CFU/G
Coliform/E. Coli Count (VRBA)	BAM METHOD, CHAPTER 4	CFU/G
E. Coli 0157-H7	AOAC 996.09, VIP	
E. Coli 0157-H7, (BAX)	BAX	
E. Coli 0157-H7, (IMS-PCR)	AOAC RI CERT #030202 & 050501	
E. Coli 0157-H7, Confirmation	BAM CHAPTER 4A	
E. Coli Confirmation	APHA	
E. Coli Count (MPN)	BAM METHOD, CHAPTER 4 & APPENDIX 2	MPN/G
E. Coli Count (Petrifilm)	FDA/BAM CHAPTER 4	CFU/G
E. Coli Count (VRBA)	BAM CHAPTER 4	CFU/G
Enterobacteriaceae, Numerical	APHA	CFU/G
Enterococci	APHA	CFU/G
Enterococcus KF Pour Plate	BAM METHOD	CFU/G
Enterococcus KF Pour Plate (APHA)	COMPENDIUM OF METHODS FOR THE MICROBIOLOGICAL EXAMINATION OF FOOD	CFU/G
Fecal Coliform (MPN)		MPN/100 ML
Fecal Streptococcus, KF		CFU/100 ML
Flat Sour Spores	BAM	CFU/G
Gram Negative Bacteria	FDA 8TH EDITION	
Gram Positive Bacteria	FDA 8TH EDITION	
Gram Stain	APHA	
Heat Resistant Mold	APHA CHAPTER 21	
Lactic Acid Bacteria	FDA/BAM	CFU/G
Lactobacillus, Total	APHA	CFU/G
Listeria Confirmation	BAM CHAPTER 10	
Listeria Count	MOX PLATES	CFU/G
Listeria Monocytogenes, (EIA)	AOAC 995.22	
Listeria Monocytogenes, (FDA)	BAM CHAPTER 10	
Listeria Monocytogenes, (IMS-PCR)	AOAC RI CERT #090201, 090201B & AOAC 2003.12	
Listeria Monocytogenes, (USDA)	USDA	
Listeria genus, (EIA)	APHA, AOAC 995.22	
Listeria genus, (FDA)	FDA/BAM	
Listeria genus, (IMS-PCR)	AOAC RI CERT #090201, 090201B & 030502	
Listeria genus, (USDA)	USDA	
Mesophilic Aerobic Spores		CFU/G
Mesophilic Anaerobic Spores		CFU/G
Mold (FDA/BAM)	BAM CHAPTER 18	CFU/G
Mold (Iso-grid)	ISO-GRID	CFU/G
Mold (Osmophilic)	APHA	CFU/G
Mold (PDA)	PDA METHOD	CFU/G
Mold (Petrifilm)	AOAC 997.02	CFU/G
Non-Lactic Acid Bacteria		CFU/G
Pseudomonas Aeruginosa Count, Liquid Cosmetics	BAM CHAPTER 23	CFU/ML
Rodac Plate, SPC		CFU/G
Rope Spore Count	COMPENDIUM OF METHODS OF MICROBIOLOGICAL EXAMINATION OF FOODS	CFU/G
Salmonella Confirmation	BAM CHAPTER 5	

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Salmonella Count (XLD)	BAM	CFU/G
Salmonella, (EIA)	AOAC 998.09	
Salmonella, (ELFA) AOAC	AOAC 996.07	
Salmonella, (FDA/BAM)	BAM CHAPTER 5	
Salmonella, (IMS-PCR)	AOAC RI CERT #090203, 090203B & AOAC 2003.09	
Salmonella, (USP)	USP 29	
Shigella (APHA)	COMPENDIUM OF METHODS FOR THE MICROBIOLOGICAL EXAMINATION OF FOOD	PER 25 GRAMS
Shigella (BAM)	BAM CHAPTER 6	
Shigella Confirmation	BAM CHAPTER 6	
Staph. Aureus (AOAC)	AOAC 975.55	
Staph. Aureus (Coag. Pos.)	BAM CHAPTER 12	CFU/G
Staph. Aureus (Petrifilm)	AOAC 975.55	CFU/G
Streptococcus Thermophilus	IDF 117 B	CFU/G
Thermophilic Aerobic Spores	APHA	CFU/G
Thermophilic Anaerobic Spores	APHA	CFU/G
Thermophilic Flat Sour Spores	APHA	CFU/G
Total Bacillus	AOAC 980.31	CFU/G
Total Thermophilic Aerobic Spores/Flat Sour Spores	GERBER	CFU/10G
Yeast (FDA/BAM)	BAM CHAPTER 18	CFU/G
Yeast (Iso-grid)	ISO-GRID	CFU/G
Yeast (Osmophilic)	APHA	CFU/G
Yeast (Petrifilm)	AOAC 997.02	CFU/G
Yeast/Mold (FDA/BAM)	BAM CHAPTER 18	CFU/G
Yeast/Mold (Iso-grid)	AOAC 995.21	CFU/G
Yeast/Mold (PDA)	BAM CHAPTER 18	CFU/G
Yeast/Mold (Petrifilm)	AOAC 995.21	CFU/G
Yeast/Mold (Simplate 72 hour)	AOAC 2002.11	CFU/G

#### MINERALS

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Aluminum by ICP	AOAC 980.03, 993.14 MODIFIED	PPM IDL: 0.0280 PPM
Antimony by ICP	AOAC 964.16, 993.14 MODIFIED	PPM IDL: 0.0241 PPM
Arsenic by ICP	AOAC 993.14 MODIFIED; 963.21 & 973.33E MODIFIED	PPM IDL: 0.1355 PPM
Cadmium by ICP	AOAC 982.23, 986.15, 993.14 MODIFIED	PPM IDL: 0.0027 PPM
Calcium, ICP for liquid samples	AOAC 968.08, 985.35, 984.27, 975.03 MODIFIED	PPM IDL: 0.0002 PPM
Calcium, ICP for solid samples	AOAC 968.08, 985.35, 935.13, 985.01 MODIFIED	MG/100G IDL: 0.00002 MG/100G
Chromium by ICP	AOAC 993.14 MODIFIED	PPM IDL: 0.0036 PPM
Cobalt by ICP	AOAC 993.14, 975.03 MODIFIED	PPM IDL: 0.0043 PPM
Copper by ICP	AOAC 975.03, 980.03, 993.14, 985.35 MODIFIED	PPM IDL: 0.0052 PPM
Iron, ICP for liquid samples	AOAC 968.08, 985.35, 984.27, 975.03, 993.14 MODIFIED	PPM IDL:0.0177 PPM
Iron, ICP for solid samples	AOAC 968.08, 985.35, 965.09, 935.13, 975.03 MODIFIED	MG/100G IDL:0.0002 MG/100G
Lead by ICP	AOAC 979.17, 993.14 MODIFIED	PPM IDL: 0.0322 PPM
Magnesium, ICP for liquid samples	AOAC 985.35, 968.08, 984.27, 975.03, 993.14 MODIFIED	PPM IDL: 0.0016 PPM
Magnesium, ICP for solid samples	AOAC 985.35, 968.08, 984.27, 935.13, 975.03 MODIFIED	MG/100G IDL:0.0002 MG/100G
Manganese, ICP for liquid samples	AOAC 985.35, 984.27, 975.03, 993.14 MODIFIED	PPM IDL: 0.0017 PPM
Manganese, ICP for solid samples	AOAC 985.35, 935.13, 965.09, 975.03 MODIFIED	MG/100G IDL:0.0002 MG/100G
Metal Scan I, ICP	AOAC 985.35, 965.09, 975.03, 993.14 MODIFIED	PPM
Molybdenum by ICP	AOAC 980.03, 993.14 MODIFIED	PPM IDL: 0.0141 PPM
Nickel by ICP	AOAC 971.20, 993.14 MODIFIED	PPM IDL: 0.0058 PPM
Phosphorous, ICP for liquid samples	AOAC 984.27, 985.01, 980.03 MODIFIED	PPM IDL: 0.0596 PPM
Phosphorous, ICP for solid samples	AOAC 984.27, 985.01, 980.03 MODIFIED	MG/100G IDL:0.0060 MG/100G
Potassium, ICP for liquid samples	AOAC 984.27, 985.35, 975.03, 980.03, 993.14 MODIFIED	PPM IDL: 0.0465 PPM
Potassium, ICP for solid samples	AOAC 985.35, 935.13, 975.03, 980.03 MODIFIED	MG/100G IDL: 0.0047 MG/100G

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Selenium, mcg/serving	ICP	MCG/SERVING
Silicon by ICP	AOAC 920.08 MODIFIED	PPM IDL: 0.0120 PPM
Silver by ICP	AOAC 993.14 MODIFIED	PPM IDL: 0.0070 PPM
Sodium, ICP for liquid samples	AOAC 985.35, 984.27, 980.03 MODIFIED	PPM IDL: 0.0690 PPM
Sodium, ICP for solid samples	AOAC 985.35, 984.27, 980.03 MODIFIED	MG/100G IDL:0.0069 MG/100G
Strontium by ICP	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PPM IDL: 0.0003 PPM
Sulfur by ICP	AOAC 980.02 MODIFIED	PPM IDL: 0.06 PPM
Tin by ICP	AOAC 985.16 MODIFIED	PPM IDL: 0.0960 PPM
Titanium by ICP	AOAC 985.35, 980.03 MODIFIED	PPM IDL: 0.0016 PPM
Zinc, ICP for liquid samples	AOAC 984.27, 985.35, 975.03, 993.14 MODIFIED	PPM IDL: 0.0081 PPM
Zinc, ICP for solid samples	AOAC 968.08, 985.35, 935.13, 975.03, 980.03 MODIFIED	MG/100G IDL:0.0008 MG/100G

#### NUTRITIONAL ANALYSES

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Ash 550-575 Deg C (Overnight)	AOAC 923.03	PERCENT
Beta Carotene	METHODS OF VITAMIN ASSAY 3RD EDITION CHAPTER 5	IU/100G
Calcium, ICP for liquid samples	AOAC 968.08, 985.35, 984.27, 975.03 MODIFIED	PPM IDL: 0.0002 PPM
Calcium, ICP for solid samples	AOAC 968.08, 985.35, 935.13, 985.01 MODIFIED	MG/100G IDL: 0.00002 MG/100G
Calories (Calculation)	CALCULATION	PER 100G
Carbohydrates (Calculation)	CALCULATION	PERCENT
Cholesterol by GC	U.S. FDA LIPID MANUAL 1992	MG/100G
Fat, Acid Hydrolysis	AOAC 935.39, 948.15, or 950.54	PERCENT
Fat, Modified Acid Hydrolysis (Roese-Gottlieb)	AOAC 989.05	PERCENT
Fat, Soxhlet	AOAC 963.15	PERCENT
Fatty Acid Profile by GC with trans Fatty Acids, g/serving	AOAC 996.06 & AOCS CE/C - 89 (92)	G/SERVING
Iron, ICP for liquid samples	AOAC 968.08, 985.35, 984.27, 975.03, 993.14 MODIFIED	PPM IDL:0.0177 PPM
Iron, ICP for solid samples	AOAC 968.08, 985.35, 965.09, 935.13, 975.03 MODIFIED	MG/100G IDL:0.0002 MG/100G
Moisture, Drying Oven	AOAC 931.04	PERCENT
Nutrition Label	AOAC METHODOLOGY	
Protein, Leco	AOAC 992.15, 992.23	PERCENT
Sodium, ICP for liquid samples	AOAC 985.35, 984.27, 980.03 MODIFIED	PPM IDL: 0.0690 PPM
Sodium, ICP for solid samples	AOAC 985.35, 984.27, 980.03 MODIFIED	MG/100G IDL:0.0069 MG/100G
Sugar Profile by HPLC	AOAC 982.14, 984.22	PERCENT MDL: 0.05 % PER SUGAR
Total Dietary Fiber, %	AOAC 985.29	PERCENT
Total Dietary Fiber, Insoluble Fiber and Soluble Fiber	AOAC 991.43	PERCENT
Vitamin A, HPLC	METHODS OF VITAMIN ASSAY	IU/100G DL: 25 IU/100G
Vitamin C, Reduced	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 14	MG/100G
Vitamin C, Total		MG/100G

#### PACKAGE TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Headspace Analysis (CO2, N2, O2)	ASTM	PERCENT
Headspace Analysis (Residual O2)		
Package Air		ML/12 OZ.
Residual Bacteria, Packaging Material	COMPENDIUM OF METHODS OF MICROBIOLOGICAL EXAMINATION OF FOODS	CFU/50 SQ CM AREA SWABBED
Residual Bacteria, Pasteurized Milk Containers	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	CFU/ML OF CONTAINER CAPACITY
Residual Coliform, Packaging Material	COMPENDIUM OF METHODS OF MICROBIOLOGICAL EXAMINATION OF FOODS	CFU/50 SQ CM AREA SWABBED
Residual Coliform, Pasteurized Milk Containers	STANDARD METHODS FOR THE EXAMINATION OF DAIRY PRODUCTS	CFU/ML OF CONTAINER CAPACITY

#### PESTICIDES

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Carbamate Screen	CDFA	
Organo-chloride Screen	CDFA	
Organo-phosphate, Organo-nitrate Screen	CDFA	
Pesticides, 221 Screen (FDA)	FDA	
Pesticides, OC Screen & OP/ON Screen	CDFA	
Pesticides, OC Screen & OP/ON Screen (FDA)	FDA	

#### PHYSICAL TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Density		G/ML
Description / Appearance	VISUAL INSPECTION	
Freezing Point	AOAC 990.22	
Granulation (1-6 sieves)	CLIENT SPECIFIED, ROTAP	
Melting Point, W&C		
Melting Point, Wiley		
Odor		
Optical Rotation	FCC or USP	
Organoleptic Evaluation		
Penetrometer		
Solubility in Water		
Specific Gravity	AOAC 955.37	
Specific Rotation	FCC or USP	
Viscosity Brookfield	BROOKFIELD	

#### PRESERVATIVES and ADDITIVES

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Benzoic Acid by HPLC	HPLC	PPM IDL: 0.50 PPM
BHA and BHT by GC	GC	PPM IDL: 0.5 PPM
Calcium Propionate by HPLC	HPLC	PERCENT
Monosodium Glutamate (MSG) by EIA	EIA	PPM DL:0.20PPM
Nitrates in Food by HPLC	HPLC	PPM
Nitrites in Food by HPLC	HPLC	PPM
Potassium Sorbate, HPLC	HPLC	PPM
Sodium Benzoate by HPLC, ppm	HPLC	PPM MDL: 0.5 PPM
Sodium Nitrite by HPLC, ppm	HPLC	PPM
Sodium Propionate by HPLC	HPLC	PPM
Sulfite, Optimized Monier-Williams	AOAC 990.28	PPM DL: 1 PPM
TBHQ by GC	GC	PPM IDL: 0.5 PPM

#### PROJECT

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Challenge Study, POR		
Method Development		
Shelf Life Studies		
Validation		

#### RAW MATERIAL TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acetone Insoluble Matter, USP	USP	PERCENT
Acid Insoluble Ash	USP	PERCENT OF ASH
Acid Insoluble Substances	USP	
Acid Soluble Substances, FCC	FCC	
Acid Value	FCC, AOAC 969.17	
Acidic Dyes	USP	
Acidity, FCC	FCC	

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acidity, USP	USP	
Aerobic Plate Count (USP)	USP	CFU/G
Alkalinity (USP)	USP	
Ammonium Salts for FCC and USP	USP or FCC	
Artificial Color in Turmeric	JECFA	
Assay for Total Esters, FCC	FCC	PERCENT
Assay for Total Menthol, FCC	FCC	PERCENT
Assay test for FCC and USP	USP or FCC	PERCENT
Assay test for FCC and USP by GC	USP or FCC	PERCENT
Assay test for FCC and USP by HPLC	USP or FCC	PERCENT
Assay test for FCC and USP by Spectrophotometer	USP or FCC	PERCENT
Assay test for Glycerin, FCC and USP	USP or FCC	PERCENT
Barium by USP	USP	
Bioburden, USP	USP	CFU/G
Calcium Carbonate	FCC	PERCENT
Carbonate by USP	USP	
Chloride, USP and FCC	USP & FCC	
Chlorinated Compounds, USP	USP	
Chromatographic Purity by GC, USP	USP	
Chromatographic Purity by HPLC, USP	USP	
Chromatographic Purity, USP	USP	
Clostridium Perfringens, USP P/A	USP	
Cold Test, FCC	FCC	
Color, USP	USP	
Conductivity, USP	USP	MICROSIEMENS/CM
Degree of Substitution, USP	USP	
Dextrose Equivalent, USP	USP	PERCENT
E. Coli (USP)	USP	
E. Coli, 25 grams (USP)	USP	
Enterobacteriaceae, USP	USP	
Fatty Acids and Esters - USP/FCC	USP or FCC	
Fluoride by FCC, Method III	FCC	PPM
Free Acetic Acid, FCC	FCC	PERCENT
Free Alkali, FCC	FCC	
Free Glycerin, FCC	FCC	PERCENT
Heavy Metals USP	USP	
Heavy Metals USP Method I	USP METHOD I	PPM
Heavy Metals USP Method II	USP or FCC METHOD II	PPM
Hexane Insoluble Matter	USP or FCC	
Hydrolyzable Substances, USP	USP	
Identification by FCC	FCC	
Identification by FCC part A	FCC	
Identification by FCC part B	FCC	
Identification by FCC part B Magnesium Stearate	FCC	
Identification by FCC, TLC	FCC	
Identification by GC, USP	USP	
Identification by IR	IR, USP	
Identification by USP	USP	
Identification by USP part A	USP, PART A	
Identification by USP part B	USP, PART B	
Identification by USP part C	USP, PART C	
Identification by USP part D	USP, PART D	
Identification by USP part E	USP, PART E	
Impurities, Insoluble	FCC	PERCENT
Insoluble Matter, FCC	FCC	PERCENT
Iron by USP	USP	
Ketones by FCC	FCC	PERCENT
Lead, FCC	FCC, APENDIX IIIB	PPM
Limit of Alkalies and Alkaline Earth (USP)	USP	
Limit of diethylene glycol and related compounds- USP	USP	

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Limit of Nitrite (USP)	USP	
Limit of Nonvolatile Residue, USP	USP	
Limit of Oxalate, USP	USP	
Limit of p-chloroaniline by HPLC (USP)	USP	UG/ML
Limit of Sodium (USP)	USP MODIFIED	
Loss on Drying	USP or FCC	PERCENT
Loss on Ignition, USP	USP	PERCENT
Moisture (USP)	USP	PERCENT
Moisture: Karl Fischer	KARL FISCHER, AOAC or USP	PERCENT
Optical Rotation	USP or FCC	
Organic Colors and Lakes (USP)	USP	
OVI (Organic Volatile Impurities)	USP	PPM
Pesticides, USP	USP	PPM
pH by FCC/USP	USP or FCC	
Potassium by USP	USP	PERCENT
Pseudomonas Aeruginosa (USP)	USP	
Quinones, FCC	FCC	PPM DL: 2.5 PPM
Readily Carbonizable Substances, USP	USP	
Reducing Sugars, USP/FCC %	USP or FCC	PERCENT
Residual Solvents by FCC	FCC	PERCENT
Residual Solvents by USP	USP	PERCENT
Residual Styrene, FCC	FCC	PPM
Residue on Ignition	USP or FCC	PERCENT
Salmonella, (USP)	USP	
Sodium Chloride, USP	USP	PERCENT
Sodium Glycolate, USP	USP	PERCENT
Solubility by USP	USP	
Soluble Salts, FCC	FCC	PERCENT
Staph. Aureus (USP)	USP	
Starch or Dextrin (FCC)	FCC	
Sulfate USP	USP	
Sulfated Ash	USP	PERCENT OF ASH
Tartrate (USP)	USP	
Total Monoglycerides	FCC	PERCENT
Total Organic Carbon, USP	USP	
Total Sugar by USP	USP	
Total Unsaturation, FCC	FCC	PERCENT
Transmittance (USP)	USP	
Unsaponifiable Matter (USP)	USP	PERCENT
Unsaturated Compounds, FCC	FCC	
Water Insoluble Substances	USP or FCC	
Water Soluble Substances	USP or FCC	
Yeast/Mold (USP)	USP	CFU/G

#### SWEETENERS and SUGARS

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Acesulfame-K by HPLC, ppm	HPLC	PPM
Arabinol by HPLC	HPLC	PERCENT
Aspartame by HPLC	HPLC	PERCENT
Degradation Products in Neotame	HPLC	PERCENT
Degradation Products in Neotame, As Is	HPLC	PPM
Dextrose Equivalent		PERCENT
Erythritol by HPLC	HPLC	PERCENT
Fructose from Sugar Profile By HPLC	AOAC 984.22	PERCENT
Galactitol by HPLC	HPLC	PERCENT
Galactose by HPLC	HPLC	PERCENT
Glucose from Sugar Profile By HPLC	AOAC 984.22	PERCENT
Glycerine by HPLC		PERCENT
Glycerol by HPLC (Glycerine)	HPLC	PERCENT

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Lactose from Sugar Profile By HPLC	AOAC 984.22	PERCENT DL: 0.05 %
Maltitol by HPLC	HPLC	PERCENT
Maltodextrin by HPLC	HPLC	PERCENT
Maltose from Sugar Profile By HPLC	AOAC 984.22	PERCENT
Maltotriose by HPLC	AOAC 979.23	PERCENT
Mannitol by HPLC	HPLC	PERCENT
MDKP	HPLC	PPM
Moisture: Vacuum Oven (70 Deg C)	AOAC 925.45	PERCENT
Neotame by HPLC	HPLC	PERCENT
Neotame by HPLC on Dry Basis (with KF Moisture)	HPLC	PERCENT
Neotame by HPLC on Dry Basis (with LOD)	HPLC	PERCENT
Sorbitol by HPLC	HPLC	PERCENT
Sucralose by HPLC, ppm	HPLC	PPM
Sucrose from Sugar Profile by HPLC	HPLC	PERCENT DL: 0.05 %
Sugar Alcohols by HPLC	HPLC	PERCENT
Sugar Profile by HPLC	AOAC 982.14, 984.22	PERCENT MDL: 0.05 % PER SUGAR
Sugar Profile for Cheese Products by HPLC	AOAC 984.22	PERCENT
Sugar Profile for Dairy Products by HPLC	AOAC 984.22	PERCENT
Sugar, Total as Invert	AOAC 931.07 MODIFIED	PERCENT
Tagatose by HPLC	HPLC	PPM
Xylitol by HPLC	HPLC	PERCENT

#### TOXINS

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Aflatoxin, M1	EIA	PPB DL: 0.500 PPB DAIRY
Aflatoxins (B1, B2, G1, G2) by EIA	EIA	PPB DL: 2.0 PPB
Histamine	EIA	PPB DL: 50 PPB
Ochratoxin A	EIA	PPB DL: 5.0 PPB
Patulin	HPLC	PPB
T2 Toxin	EIA	
Vomitoxin	EIA	PPM DL: 0.3 PPM
Zearalenone	EIA	PPB DL: 50 PPB

#### VITAMINS

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Mesurement</u>
Beta Carotene	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 5	IU/100G
Biotin by HPLC	HPLC	MG/100G
Biotin, Microbiological	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 12	MG/100G
Choline Chloride	AOAC 999.14 MODIFIED	MG/100G
Folic Acid, Vitamin B9 (HPLC)	HPLC	MCG/100G
Folic Acid, Vitamin B9 (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 11	MCG/100G
Niacin, Vitamin B3 (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 8	MG/100G
Niacin, Vitamin B3 by HPLC (mg/100g)	HPLC	MG/100G
Pantothenic Acid, Vitamin B5 (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 9	MG/100G
Pantothenic Acid, Vitamin B5 by HPLC (mg/100g)	HPLC	MG/100G
Riboflavin, Vitamin B2 (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 7	MG/100G
Riboflavin, Vitamin B2 by HPLC (mg/100g)	HPLC	MG/100G
Thiamine, Vitamin B1 (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 6	MG/100G
Thiamine, Vitamin B1 by HPLC (mg/100g)	HPLC	MG/100G
Vitamin A, Carr Price	CARR PRICE	IU/100G
Vitamin A, HPLC	METHODS OF VITAMIN ASSAY	IU/100G DL: 25 IU/100G
Vitamin B12, Cyanocobalamine (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 13	MCG/100G

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Vitamin B12, Cyanocobalamin by HPLC (mcg/100g)	HPLC	MCG/100G
Vitamin B6, Pyridoxine (Microbiological)	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 10	MG/100G
Vitamin B6, Pyridoxine by HPLC (mg/100g)	HPLC	MG/100G
Vitamin C, Iodine Titration		MG/100G
Vitamin C, HPLC	HPLC	
Vitamin C, Reduced	METHODS OF VITAMIN ASSAY, 3RD EDITION CHAPTER 14	MG/100G
Vitamin D	HPLC, AOAC 982.29	
Vitamin E (a-tocopheryl acetate) by GC	GC	MG/100G
Vitamin E, HPLC	HPLC	
Vitamin K	HPLC	

#### WATER TESTING

<u>Test Name</u>	<u>Methodology</u>	<u>Units of Measurement</u>
Aerobic Plate Count, Water	BAM METHOD, CHAPTER 3	CFU/ML
Alkalinity of Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	MG CaCO <sub>3</sub> /L
Ammonia as Nitrogen	EPA 350.1 R. 2.0	MG/L
Bicarbonate in Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	MG/L
Calcium Carbonate in Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PPM
Carbonate in Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	MG/L
Chloride, Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PPM
Chlorine, Residual (Iodometric Titration)	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	MG CL AS CL <sub>2</sub> /L
Conductivity	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	MICROSIEMENS/CM
Fecal Coliform, Membrane Filter for Water		CFU/100 ML
Fecal Streptococcus, Membrane Filter		CFU/100 ML
Hardness (Calculation from Ca & Mg) - Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PPM
Hardness in Water by EDTA Titration	SM2340 C	MG/L
Nitrate as Nitrogen in Water, HPLC	HPLC	PPM IDL: 0.10 PPM
Nitrate as Nitrogen in Water, Test Kit	DEPARTMENT OF NATURAL RESOURCES, MAXIMUM ALLOWABLE IS 10 MG/L	MG/L MDL: 0.02 MG/L
Nitrates in Water by HPLC	HPLC	PPM IDL: 0.10 PPM
Nitrite as Nitrogen in Water by HPLC	HPLC	PPM IDL: 0.10 PPM
Nitrite as Nitrogen in Water, Test Kit	DEPARTMENT OF NATURAL RESOURCES, MAXIMUM ALLOWABLE IS 10 MG/L	MG/L MDL: 0.02 MG/L
Nitrites in Water by HPLC	HPLC	PPM IDL: 0.10 PPM
pH of Water	AOAC 973.41	
Pseudomonas Aeruginosa Count, Water	FDA/BAM CHAPTER 23	CFU/ML
Sediments in Water		
Standard Plate Count, Water	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	CFU/ML
Standard Plate Count, Water (MF)	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	CFU/100 ML
Total Coliform - Water Safety (Colilert / Colisure)	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PER 100ML
Total Coliform / E. coli Water Safety (Colilert / Colisure)	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PER 100ML
Total Coliform (Membrane Filter)	WATER	CFU/100 ML
Total Dissolved Solids		MG/L
Total Dissolved Solids	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	PERCENT
Yeast/Mold in water (MF)	STANDARD METHODS FOR THE EXAMINATION OF WATER & WASTEWATER	CFU/100 ML

