

LISTING OF INDEPENDENT ANALYTICAL & MICROBIOLOGICAL TESTING SERVICES

Allergens	3
Beverages	3
Challenge Studies	4
Dairy	12
Extraneous	13
Fats & Oils	14
Microbiology	15
Minerals	21
Nutritional Labeling	22
Packaging	23
Pesticides	23
Physical Testing	24
Preservatives/Additives	24
Raw Materials	25
Shelf Life Studies	30
Sugars & Sweeteners	30
Toxins	31
Vitamins	31
Water	31

Sample Submission:

All samples submitted to Northland Laboratories should be accompanied by an Analysis Request Form, which can be downloaded from our website at www.northlandlabs.com.

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Rush services for analyses that do not require a fixed incubation period are available for clients with established relationships with Northland Laboratories. Rush services may require a surcharge. Please contact your Northland location before submitting samples for rush services.

Recheck Analysis:

A recheck can be performed at the request of the sample submitter. A charge may be incurred if the recheck results confirm the initial results.

Sample Courier Services:

Courier services are available for certain geographic regions. Call your Northland Laboratories location to see if pick ups are available in your area.

Shelf Life and Challenge Studies:

Shelf Life Studies and Challenge Studies are custom-designed for each individual product and the objective of each study. The final cost for a study is determined by the design and duration of the study. To obtain pricing on a specific project, contact your Northland Laboratories location to discuss your study in detail.

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ISO/IEC 17025 Accreditation:

Both Northland Laboratories' locations are ISO/IEC 17025 accredited. For accreditation certificates and scopes, visit:
http://www.northlandlabs.com/northlands/about_locations.aspx

ALLERGENS

TEST NAME	METHOD REFERENCE
Aflatoxin, M1	EIA
Aflatoxins (B1, B2, G1, G2) by EIA	EIA
Almond Allergen	EIA
Egg Allergen, EIA	EIA, NEOGEN
Gluten (Quantitative) as Gliadin Allergen	EIA
Milk Allergen, EIA	EIA, NEOGEN
Ochratoxin A	EIA
Peanut Protein, EIA	EIA
Soy Allergen, EIA	EIA, NEOGEN
Soy Protein, EIA	EIA, NEOGEN
Vomitoxin	EIA
Wheat Allergen by EIA	EIA, NEOGEN
Wheat Gluten as R5 Gliadin Allergen	EIA
Zearalenone	EIA

BEVERAGES

TEST NAME	METHOD REFERENCE
Alcohol by GC	GC
Alicyclobacillus	CMMEF CHAPTER 24
Benzene in Beverage Products	GC/MS
Caffeine by HPLC	HPLC
Extract of Distilled Liquors	AOAC 920.47
Flavor Profile of Absinthe by GC	GC
Flavor Profile of Dry Raw Materials for Spirits by GC	GC
Flavor Profile of Gin by GC	GC
Fusel Oils by GC	GC
Impurities in Spirits by GC/MS	GC/MS
Patulin	HPLC, AOAC 995.10
pH of Foods and Beverages	AOAC 981.12

CHEMISTRY

TEST NAME	METHOD REFERENCE
Potassium Sorbate, HPLC	HPLC
Screening of Distilled Spirits for Thujone by GC-MS	TTB
Sodium Benzoate by HPLC	HPLC
Total Polyphenols as EGCG and Total Polyphenols	USP

TEST NAME	METHOD REFERENCE
Acesulfame-K	HPLC
Acetate	HPLC
Acetic Acid	HPLC
Acid Degree Value, Dairy	SMEDP 15.141
Acidity, Total as Acetic	AOAC 935.57
Acidity, Total as Malic	AOAC 959.13
Alcohol by GC	GC
Alkalinity of Water	SMEWW 4500
Aluminum by ICP	AOAC 980.03, 993.14 MODIFIED
Antibiotics (Charm SL)	SMEDP 12.046
Antibiotics (Finished Product) by Delvo P	SMEDP 12.024 17T
Antibiotics (Milk) by Delvo P	SMEDP 12.023
Arabinitol by HPLC	HPLC
Arsenic by ICP	AOAC 993.14 MODIFIED
Ash	AOAC 923.03
Aspartame by HPLC	HPLC
Barium by ICP	AOAC 980.03, 993.14 MODIFIED
Benzene in Beverage Products	GC/MS
Benzoic Acid by HPLC	HPLC
Beta Carotene	METHODS OF VITAMIN ASSAY 3RD. ED. CHAPTER 5
BHA by GC	GC
BHT by GC	GC

TEST NAME	METHOD REFERENCE
Bicarbonate in Water	SMEWW 4500
Biotin by HPLC	HPLC
Bismuth by ICP	METHODS OF VITAMIN ASSAY 3RD ED. CHAPTER 12
Brix, Percent Solids	REFRACTOMETER
Cadmium by ICP	AOAC 982.23, 986.15, 993.14 MODIFIED
Cadmium by Leaching	AOAC 982.23, 986.15, 993.14 MODIFIED
Caffeine by HPLC	HPLC
Calcium by ICP	AOAC 968.08, 985.35, 935.13, 985.01 MODIFIED
Calcium Carbonate in water	SMEWW 2330
Calories (Calculation)	CALCULATION
Capsaicinoids (Scoville Heat)	AOAC 995.03
Carbohydrates (Calculation)	CALCULATION
Carbon Dioxide, CO ₂ (Chittick)	AOAC 923.02
Carbonate in Water	SMEWW 5550
Casein and Total Protein	AOAC 941.06, 998.06, 998.07 MODIFIED
Casein and Whey Protein	AOAC 941.06, 998.06, 998.07 MODIFIED
Casein in Milk	AOAC 941.06, 998.06, 998.07 MODIFIED
Chloride (%), Volhard	AOAC 986.26
Chloride, Water	SMEWW 4500 CI
Chlorine, Free	SMEWW 4500
Chlorine, Total in Water	SMEWW 4500
Cholesterol by GC	U.S. FDA LIPID MANUAL 1992
Chromium by ICP	AOAC 993.14 MODIFIED
Citrate by HPLC	HPLC
Citric Acid by HPLC	HPLC
Cobalt by ICP	AOAC 993.14, 975.03 MODIFIED
Color, Hunter	ASTM
Conductivity	SMEWW 2510

TEST NAME	METHOD REFERENCE
Conjugated Linoleic Acid (CLA)	GC
Copper by ICP	AOAC 975.03, 980.03, 993.14, 985.35 MODIFIED
Crude Fiber	AOAC 962.09
Curcumin in Turmeric	ASTA 18.0
D & L - Lactic Acid in Cheese	D-L-LACTIC ACID TEST KIT, R-BIO-PHARM
Degradation Products in Neotame, As Is	HPLC
d-Glucuronolactone by HPLC	HPLC
Diacetyl in Foods by GC	ASBC MODIFIED
Disintegration Test for Paper and Paperboard	SMEDP 13.042
Docosahexaenoic Acid by GC	GC
Dry Substance by Refractive Index	
Eicosapentaenoic Acid by GC	EIA
Ethyl Vanillin by HPLC, %	HPLC
Extract of Distilled Liquors	AOAC 920.47
Fat in Butter, Includes Moisture	AOAC 938.06
Fat on Dry Basis, Includes Moisture	AOAC 981.05
Fat, Acid Hydrolysis	AOAC 935.39, 922.06, 948.15, OR 950.54
Fat, Babcock	SMEDP 15.082
Fat, Crude	AOAC 920.39, 960.39, 948.22
Fat, Kohman method Class B	SMEDP 9.3
Fat, Modified Mojonnier (Roese-Gottlieb)	SMEDP 15.086
Fat, Pennsylvania Modified Babcock	SMEDP 15.084
Fat, Soxhlet	AOAC 963.15, 920.39, 960.39, 948.22, USDA
Fatty Acid Profile, GC w/ trans Fatty Acids	AOAC 996.06 & AOCS CE/C - 89(92)
Flavor Profile of Absinthe by GC	GC
Flavor Profile of Dry Raw Materials for Spirits by GC	GC
Flavor Profile of Gin by GC	GC

TEST NAME	METHOD REFERENCE
Formic Acid by HPLC	HPLC
Free Fatty Acid by Cold Press Extraction	HPLC
Free Fatty Acid, Finished Product (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50
Free Fatty Acid, Oil (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50
Free Moisture, AOAC	AOAC 925.09
Fructose from Sugar Profile By HPLC	AOAC 984.22
Fusel Oils by GC	GC
Galactitol by HPLC	HPLC
Galactose by HPLC	HPLC
Glucose from Sugar Profile By HPLC	AOAC 984.22
Glycerol by HPLC (Glycerine)	HPLC
Glycyrrhizic Acid	AOAC 982.19 (MODIFIED)
Guaiacol by GC	GC
Hardness (Calculation from Ca & Mg) - Water	SMEWW 2340
Hardness in Water by EDTA Titration	SMEWW 2340 C
Headspace Analysis (CO ₂ , N ₂ , O ₂)	ASTM
Headspace by GC/MS, POR	GC/MS
Hexanal and related aldehydes, GC-MS Scan	GC-MS
Hydroxyl Value	AOCS CD 4-40
Hydroxymethylfurfural in Honey	AOAC 980.23 (1990)
Impurities in Spirits by GC/MS	GC/MS
Inositol	METH. OF ANALYSIS FOR INFANT FORMULA SECTION C-7, 1985 MOD
Insoluble Dietary Fiber	AOAC
Iodine Value	AOAC 993.20
Iron by ICP	AOAC 985.01 MODIFIED
Isopropyl Alcohol by GC	GC
Lactic Acid by HPLC	HPLC

TEST NAME	METHOD REFERENCE
Lactose from Sugar Profile By HPLC	AOAC 984.22
Lead by ICP	AOAC 979.17, 993.14 MODIFIED
Lead by Leaching	ICP/MS
Limit of 5-benzyl-3,6-dioxo-2-piperazineacetic acid (DKP)	HPLC, USP/NF26
Magnesium by ICP	AOAC 985.35, 968.08, 984.27, 935.13, 975.03 MODIFIED
Maleic Acid by HPLC	HPLC
Malic Acid by HPLC	HPLC
Maltitol by HPLC	HPLC
Maltodextrin by HPLC	HPLC
Maltose from Sugar Profile By HPLC	AOAC 984.22
Manganese by ICP	AOAC 985.35, 935.13 965.09, 975.03 MODIFIED
Mannitol by HPLC	HPLC
Mercury, Cold Vapor	MERCURY METHOD 7470A (COLD VAPOR)
Metal Scan I, ICP	AOAC 985.35, 965.09, 975.03, 993.14 MODIFIED
Methanol by GC	AOAC 973.23 MODIFIED
Moisture Protein Ratio	AOAC, MOISTURE BY DRYING OVEN, PROTEIN BY COMBUSTION
Moisture, AACC	AACC 44.15A
Moisture, AOCS	AOCS CA 2C.25
Moisture, Drying Oven, AOAC	AOAC 950.46B / USDA CLG.MOI.03
Moisture, Karl Fischer	AOAC
Moisture, Kohman Method Class B	SMEDP 15.123
Moisture, Vacuum Oven	AOAC, SMEDP 17TH EDITION
Monosodium Glutamate (MSG) by EIA	EIA
Neotame by HPLC	HPLC
Nickel by ICP	AOAC 971.20, 993.14 MODIFIED
Nitrate as Nitrogen in Water, Test Kit	HACH
Nitrates in Cheese	AOAC

TEST NAME	METHOD REFERENCE
Nitrates in Food Colorimetric	AOAC 973.31
Nitrite as Nitrogen in Water, Test Kit	HACH
Nitrites in Cheese	AOAC
Nitrogen (%), Leco	AOAC 990.03 MODIFIED
Non-Casein Nitrogen (%)	AOAC 998.05 MODIFIED
Non-Protein Nitrogen (%), Leco	AOAC 991.21 MODIFIED
Omega-3, Omega-6 & Omega-9 Poly-unsaturat	-
Organic Acids by HPLC, 5 acids included	HPLC
p-Anisidine Value	AOCS CD 18-90
PCA (Pyrrolidone Carboxylic Acid) and Glutamine by LC/MS	LC/MS
Peroxide Value	AOAC 965.33
Peroxide Value (Extraction by Cold Press)	AOAC 965.33
pH of Foods and Beverages	AOAC 981.12
pH of water	AOAC 973.41
Phosphatase Screen, Cheese	SMEDP 14.060 (CHARM)
Phosphatase Screen, Dairy	SMEDP 14.060 (CHARM)
Phosphatase Screen, Milk	SMEDP 14.060 (CHARM)
Phosphate, Calculation from Phosphorous by ICP	AOAC 984.27, 985.01, 980.03 MODIFIED
Phosphorous by ICP	AOAC 984.27, 985.01, 980.03 MODIFIED
Piperine in Pepper Preparations	AOAC 987.07
Potassium by ICP	AOAC 985.35, 935
Potassium Sorbate, HPLC	HPLC
Protein Free Fat (Includes protein and fat)	AOAC 992.15; 960.39
Protein on Dry Basis	AOAC 992.15, 992.23, USDA CLG-PRO4.03, AOAC 950.46B
Protein, Leco	AOAC 990.03, 992.15, 992.23
Pyruvic Acid by HPLC	HPLC
Quinic Acid by HPLC	HPLC

TEST NAME	METHOD REFERENCE
Reducing Sugars	AOAC
Residual Solvents Acetic & Formic Acids in Aspartame, HPLC	HPLC
Resistant Maltodextrin by HPLC	AOAC 2001.03 MODIFIED
Resistant Starch	AOAC 2001.02
Riboflavin, Vitamin B2 (Microbiological)	METHODS OF VITAMIN ASSAY
Saccharin by HPLC	HPLC
Salt by Chloride Analyzer	SMEDP 15.053
Salt, Dicromat	DICROMAT
Salt, Kohman Method	SMEDP 15.123
Salt, Mohr	AOAC 941.18
Salt, Volhard	AOAC 935.43, 935.47, 937.09, 941.18
Saponification Value	AOAC 920.16
Screening of Distilled Spirits for Thujone by GC-MS	TTB
Sediments in Water	SMEWW 8510
Silica, Calculation from Silicon by ICP	AOAC 945.04 MODIFIED
Sodium Benzoate by HPLC	HPLC
Sodium by ICP	AOAC 985.35, 984.27, 980.03 MODIFIED
Solids by Drying Oven	AOAC 931.04
Solids by Karl Fisher	AOAC
Solids by Vacuum Oven	AOAC
Solubility Index	SMEDP 15.171
Soluble Dietary Fiber	AOAC
Sorbic Acid by HPLC	HPLC
Sorbitol by HPLC	HPLC
Stevia Rebaudioside A by HPLC	HPLC
Succinic Acid by HPLC	HPLC
Sucralose by HPLC	HPLC, USP MODIFIED
Sucrose from Sugar Profile By HPLC	HPLC

TEST NAME	METHOD REFERENCE
Sugar Alcohols by HPLC	HPLC
Sugar Profile by HPLC	AOAC 982.14 AND 984.22
Sugar, Total as Invert	AOAC 931.07 MODIFIED
Sulfite, Optimized Monier-Williams	AOAC 990.28
Tagatose by HPLC	
Taurine by HPLC	HPLC
TBHQ by GC	GC
Theobromine by HPLC	HPLC
Theophylline by HPLC	HPLC
Thiobarbituric Acid (TBA) by Distillation	J.A. OIL CHEMIST SOCIETY, VOL 37 #1, PG.44-48
Titanium by ICP	AOAC 985.35, 980.03 MODIFIED
Titrateable Acidity	AOAC 920.174, 935.57, 942.15, 947.05
Titrateable Acidity in Dairy Products	SMEDP 15.021
Total Benzoate by HPLC, ppm	HPLC
Total Dietary Fiber	AOAC 985.29
Total Phenolic Antioxidants Profile by HPLC	HPLC, CUSTOMER SUPPLIED METHOD
Trans Fatty Acids by GC	AOAC 996.06
Trans Fatty Acids with Total Fat by GC	AOAC 996.06
Unsaponifiables	AOCS CA 68.40
Vanilla Flavor Compounds by HPLC	HPLC
Vanillin, HPLC (Vanilla)	HPLC
Vitamin A (Carr Price)	CARR PRICE
Vitamin A (Total Retinol), HPLC	AOAC 994.02; 974.29 (Modified)
Vitamin B: B1, B2, B3, B5, B6, B7, B9, B12	HPLC
Vitamin C by HPLC	HPLC
Vitamin D by HPLC	AOAC 982.29 MODIFIED
Vitamin E (Total) by HPLC	HPLC
Vitamin K1	HPLC
Volatile Oils	ASTA 16.0

DAIRY

TEST NAME	METHOD REFERENCE
Water Activity	CMMEF CHAPTER 64
Water Phase Salt	-
Whey Protein in Dairy Products	SMEDP 15.134
Whey Protein Nitrogen, Leco	SMEDP 15.134
Xylitol by HPLC	HPLC
Zinc by ICP	AOAC 968.08,985.35, 935.13, 975.03, 980.03 MODIFIED

TEST NAME	METHOD REFERENCE
Acid Degree Value, Dairy	SMEDP 15.141
Antibiotics (Charm SL)	SMEDP 12.046
Antibiotics (Finished Product) by Delvo P	SMEDP 12.024 17T
Antibiotics (Milk) by Delvo P	SMEDP 12.023
Casein and Whey Protein	AOAC 941.06, 998.06, 998.07 MODIFIED
Casein in Milk	AOAC 941.06, 998.06, 998.07 MODIFIED
Coliform, High Sensitivity Petrifilm for Dairy	AOAC 996.02
D & L - Lactic Acid in Cheese	D-L-LACTIC ACID TEST KIT, R-BIOPHARM
Direct Microscopic Bacterial Count	SMEDP 10
Fat in Butter, Includes Moisture	AOAC 938.06
Fat on Dry Basis, Includes Moisture	AOAC 981.05
Fat, Babcock	SMEDP 15.082
Fat, Kohman method Class B	SMEDP 9.3
Fat, Modified Mojonier (Roese-Gottlieb)	SMEDP 15.086
Fat, Pennsylvania Modified Babcock	SMEDP 15.084
Moisture, Kohman Method Class B	SMEDP 15.123
Moisture, Vacuum Oven	AOAC, SMEDP 17TH EDITION
Nitrates in Cheese	AOAC
Nitrites in Cheese	AOAC

EXTRANEOUS

TEST NAME	METHOD REFERENCE
Phosphatase Screen, Cheese	SMEDP 14.060 (CHARM)
Phosphatase Screen, Dairy	SMEDP 14.060 (CHARM)
Phosphatase Screen, Milk	SMEDP 14.060 (CHARM)
Salt by Chloride Analyzer	SMEDP 15.053
Salt, Kohman Method	SMEDP 15.123
Scorched Particles	SMEDP 15.172
Sediments in Milk Products	SMEDP 15.072
Solids by Vacuum Oven	AOAC
Solubility Index	SMEDP 15.171
Thermoduric Plate Count (APHA)	SMEDP 8.030
Titrateable Acidity in Dairy Products	SMEDP 15.021
Total Thermophilic Plate Count	SMEDP 8.040
Whey Protein in Dairy Products	SMEDP 15.134
Whey Protein Nitrogen, Leco	SMEDP 15.134

TEST NAME	METHOD REFERENCE
Extraneous Material: Alimentary Pastes	AOAC 969.41
Extraneous Material: Black Pepper	AOAC 972.40
Extraneous Material: Cinnamon	AOAC 968.38
Extraneous Material: Condiments and Spices	AOAC 975.48
Extraneous Material: Coriander, Ginger, Celery Seed, Pepper	AOAC 977.24
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
Extraneous Material: Fruit/Fruit Paste	AOAC 964.23
Extraneous Material: Hard Candy	AOAC 971.34

FATS & OILS

TEST NAME	METHOD REFERENCE
Extraneous Material: Light Filth	AOAC 970.66
Extraneous Material: Rice	MPM V.3.A, MACROSCOPIC FILTH & EXTRANEEOUS MATERIAL
Extraneous Material: Rice Sticks	AOAC 982.32
Extraneous Material: Syrups/Honey/Molasses	AOAC 945.79

TEST NAME	METHOD REFERENCE
Cholesterol by GC	U.S. FDA LIPID MANUAL 1992
Conjugated Linoleic Acid (CLA)	GC
Docosahexaenoic Acid by GC	ASBC
Eicosapentaenoic Acid by GC	EIA
Fat on Dry Basis, Includes Moisture	AOAC 981.05
Fat, Acid Hydrolysis	AOAC 935.39, 922.06, 948.15, OR 950.54
Fat, Babcock	SMEDP 15.082
Fat, Crude	AOAC 920.39, 960.39, 948.22
Fat, Kohman method Class B	SMEDP 9.3
Fat, Modified Mojonnier (Roese-Gottlieb)	SMEDP 15.086
Fat, Pennsylvania Modified Babcock	SMEDP 15.084
Fat, Soxhlet	AOAC 963.15, 920.39, 960.39, 948.22, USDA
Fatty Acid Profile, GC w/ trans Fatty Acids	AOAC 996.06 & AOCS CE/C - 89(92)
Free Fatty Acid by Cold Press Extraction	HPLC
Free Fatty Acid, Finished Product (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50
Free Fatty Acid, Oil (as oleic acid)	AOAC 940.28 & AOCS CA 5A-50
Hydroxyl Value	AOCS CD 4-40
Iodine Value	AOAC 993.20
Moisture, AOCS	AOCS CA 2C.25

TEST NAME	METHOD REFERENCE
Omega-3, Omega-6 & Omega-9 Polyunsaturat	-
Peroxide Value	AOAC 965.33
Peroxide Value (Extraction by Cold Press)	AOAC 965.33
Saponification Value	AOAC 920.16
Thiobarbituric Acid (TBA) by Distillation	J.A. OIL CHEMIST SOCIETY, VOL 37 #1, PG.44-48
Trans Fatty Acids by GC	AOAC 996.06
Trans Fatty Acids with Total Fat by GC	AOAC 996.06

TEST NAME	METHOD REFERENCE
Acetic Acid Bacteria	BERGEYS MANUAL OF DETERMINATIVE BACTERIOLOGY
Acid Preservative Resistant Yeast	CMMEF CHAPTER 51
Aerobic Plate Count (AOAC)	AOAC 966.23
Aerobic Plate Count (FDA/BAM)	FDA/BAM CHAPTER 3
Aerobic Plate Count (Petrifilm)	AOAC 990.12
Aerobic Plate Count (USP)	USP
Aerobic Plate Count, Water (FDA/BAM)	FDA/BAM CHAPTER 3
Aerobic Plate Count, Water (Membrane Filtration) USP	USP
Aerobic Plate Count, Water (Petrifilm)	AOAC 990.12
Aerobic Plate Count, Water USP	USP
Aerobic Spore Count	CMMEF CHAPTER 7
Alicyclobacillus	CMMEF CHAPTER 24
Anaerobic Plate Count (Petrifilm)	AOAC 986.33, 989.10, 990.12
Anaerobic Plate Count, Membrane Filter	CMMEF CHAPTER 6
Anaerobic Spore Count	CMMEF CHAPTER 6
Bacillus Cereus (AOAC)	AOAC 980.31
Bacillus Cereus Confirmation	AOAC 980.31
Bacillus Cereus MPN, AOAC	AOAC 980.31

TEST NAME	METHOD REFERENCE
Bacillus Cereus, (FDA/BAM)	FDA/BAM CHAPTER 14
Bacillus Coagulans	CMMEF
Bifidobacterium spp. by TPY Agar Count	-
Biotin per serving, Microbiological Assay	METHODS OF VITAMIN ASSAY 3RD ED. CHAPTER 12
Burkholderia cepacia	USP
Campylobacter (USDA)	USDA
Campylobacter, ELFA, 25g	VIDAS ELFA
Candida genus	USP
Clostridium Perfringen Count (AOAC)	AOAC 976.30
Clostridium Perfringen Count (FDA/BAM)	FDA/BAM CHAPTER 16
Clostridium Perfringens, P/A	USP
Coliform & E. coli (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4 & APPENDIX 2
Coliform & E. coli (MPN) AOAC	AOAC 966.23
Coliform & E. coli (Petrifilm)	AOAC 991.14 & 998.08
Coliform & E. coli (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform & E. coli in Water (MPN)	SMEWW 9221C
Coliform & E. coli in Water (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4 & APPENDIX 2
Coliform (MPN) AOAC	AOAC 966.23
Coliform (Petrifilm)	AOAC 991.14 & 998.08
Coliform (Petrifilm), carcass swab	AOAC 991.14 & 998.08
Coliform (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform in Water (MPN)	SMEWW 9221C
Coliform in Water (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform in Water (Petrifilm)	AOAC 991.14 & 998.08
Coliform in Water (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4

TEST NAME	METHOD REFERENCE
Coliform, High Sensitivity Petrifilm for Dairy	AOAC 996.02
Cultural examination of low-acid foods (Sterility) (FDA/BAM)	FDA/BAM CHAPTER 21A
Direct Microscopic Bacterial Count	SMEDP 10
Direct Microscopic Examination	CMMEF CHAPTER 62
E. coli (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4 & APPENDIX 2
E. coli (MPN) AOAC	AOAC 966.23, 966.24
E. coli (Petrifilm)	AOAC 991.14 & 998.08
E. coli (Petrifilm), carcass sponge	AOAC 991.14 & 998.08
E. coli (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4 I-G
E. coli O157:H7 (PCR)	AOAC RI #020801
E. coli O157:H7, VIDAS ELFA	AOAC RI 010502
Enterobacteriaceae, Petrifilm	CMMEF 8.63
Enterobacteriaceae, USP	USP
Enterococci	CMMEF CHAPTER 9
Enterococcus KF Plate, P/A	CMMEF MODIFIED FOR ENRICHMENT
Enterococcus KF Pour Plate (APHA)	CMMEF CHAPTER 9
Fecal Coliform (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4
Fecal Coliform, Membrane Filter, Water	SMEWW 9222D
Fecal Streptococcus, KF, Water	SMEWW 9222D
Folic Acid, Vitamin B9 (Microbiological)	METHODS OF VIATMIN ASSAY 3RD ED., CH 11
Gram Negative Bacillus, P/A (FDA/BAM)	FDA/BAM
Gram Negative Bacteria (FDA/BAM)	FDA/BAM
Gram Positive Bacteria (FDA/BAM)	FDA/BAM
Heat Resistant Mold	CMMEF CHAPTER 21
Heterofermentative Lactobacillus (MPN)	-
Klebsiella, USP	USP

TEST NAME	METHOD REFERENCE
Lactic Acid Bacteria	CMMEF CHAPTER 19
Lactic Acid Bacteria (Petrifilm)	CMMEF CHAPTER 19.571
Lactic Viable Spore Count	CMMEF, DTA
Lactobacillus bulgaricus	IDF 117 B
Lactobacillus helveticus	IDF 149A; 1997
Lactobacillus, Total	CMMEF CHAPTER 47
Listeria genus, (PCR)	AOAC RI #090701
Listeria genus, ELFA VIDAS	AOAC 999.06
Listeria monocytogenes, (FDA/BAM)	FDA/BAM CHAPTER 10
Listeria monocytogenes, (PCR)	AOAC RI #010802
Listeria monocytogenes, (USDA)	USDA
Listeria monocytogenes, ELFA VIDAS	AOAC 2004.02
Listeria, (FDA/BAM)	FDA/BAM CHAPTER 10
Listeria, (USDA)	USDA
Listeria, environmental (L.mono/in-nocua/welshimeri), Petrifilm	AOAC RI 030601
Mesophilic Aerobic Spores	CMMEF CHAPTER 23
Mesophilic Anaerobic Spores	CMMEF CHAPTER 23
Mold (Iso-grid)	AOAC 995.21
Mold (Osmophilic)	CMMEF CHAPTER 20
Mold (Petrifilm)	AOAC 997.02
Mold (USP)	USP
Mold, Howard Count	USDA
Nitrate Reducing Bacteria	CMMEF 32.24
Non-Lactic Acid Bacteria	CMMEF CHAPTER 19
Pantothenic Acid, Vitamin B5 (Microbiological)	METHODS OF VITAMIN ASSAY 3RD ED., CH 9
Propionibacteria	CMMEF 4TH ED.
Proteolytic Bacteria	CMMEF CHAPTER 16
Proteus spp.	USP
Pseudomonas (USP)	USP

TEST NAME	METHOD REFERENCE
Pseudomonas Aeruginosa (USP)	USP
Pseudomonas Aeruginosa Count, Cosmetics (FDA/BAM)	FDA/BAM CHAPTER 23
Pseudomonas Aeruginosa Count, Water (FDA/BAM)	FDA/BAM CHAPTER 23
Psychrotrophic Plate Count	CMMEF CHAPTER 13
Psychrotrophic Plate Count, Petrifilm	CMMEF CHAPTER 13
Psychrotrophic Yeast & Mold	CMMEF CHAPTER 20
Residual Bacteria Count	CMMEF 3.51
Residual Bacteria Count for Pasteurized Milk Containers	SMEDP 13.041
Residual Coliform Count	CMMEF 3.51
Residual Coliform Count for Pasteurized Milk Containers	SMEDP 13.041
Rope Spore Count	CMMEF CHAPTER 22
Salmonella, (FDA/BAM)	FDA/BAM CHAPTER 5
Salmonella, (PCR)	AOAC RI #010803
Salmonella, (USDA)	USDA
Salmonella, (USP)	USP
Salmonella, ELFA VIDAS	AOAC RI 020901
Shigella	CMMEF CHAPTER 38
Shigella (FDA/BAM)	FDA/BAM CHAPTER 6
Spore Forming Bacteria	CMMEF
Standard Heterotrophic Plate Count, Water	SMEWW 9215 / 9215D
Staphylococcus (USP)	USP
Staphylococcus aureus (AOAC)	AOAC 975.55 and 987.09 Modified
Staphylococcus aureus (Coag. Pos.) (FDA/BAM)	FDA/BAM CHAPTER 12
Staphylococcus aureus (P/A) (FDA/BAM)	FDA/BAM
Staphylococcus aureus (USP)	USP
Streptococcus Thermophilus	IDF 117 B
Sulfide Spoilage Spores	CMMEF CHAPTER 27

TEST NAME	METHOD REFERENCE
Thermoduric Plate Count (APHA)	SMEDP 8.030
Thermoduric Psychrophilic Spores	CMMEF CHAPTER 14
Thermophilic Anaerobic Spores	CMMEF CHAPTER 26
Thermophilic Flat Sour Spores	CMMEF CHAPTER 25
Total Bacillus	CMMEF
Total Coliform in Water (Membrane Filter)	SMEWW 9222B
Total Thermophilic Plate Count	SMEDP 8.040
Water Safety, Coliform/E.coli, Private or Public	IDEXX COLILERT / COLISURE
Water Safety, Total Coliform MPN	SMEWW 9221
Yeast & Mold (FDA/BAM)	FDA/BAM CHAPTER 18
Yeast & Mold (Iso-grid)	AOAC 995.21
Yeast & Mold (Osmophilic)	CMMEF CHAPTER 20
Yeast & Mold (PDA) (FDA/BAM)	FDA/BAM CHAPTER 18
Yeast & Mold (Petrifilm)	AOAC 997.02
Yeast & Mold (Total Fungal Count) by Simplate	AOAC 2002.11
Yeast & Mold (USP)	USP
Yeast & Mold, water (FDA/BAM)	FDA/BAM CHAPTER 18
Yeast & Mold, water (Membrane Filtration)	SMEWW 9610
Yeast & Mold, water (Petrifilm)	AOAC 997.02
Yeast (Iso-grid)	AOAC 995.21
Yeast (Osmophilic)	CMMEF CHAPTER 20
Yeast (USP)	USP
Yeast, Petrifilm	AOAC 997.02

MINERALS/METALS

TEST NAME	METHOD REFERENCE
Aluminum by ICP	AOAC 980.03, 993.14 MODIFIED
Arsenic by ICP	AOAC 993.14 MODIFIED
Cadmium by ICP	AOAC 982.23, 986.15, 993.14 MODIFIED
Cadmium by Leaching	AOAC 982.23, 986.15, 993.14 MODIFIED
Calcium by ICP	AOAC 968.08, 985.35, 935.13, 985.01 MODIFIED
Chromium by ICP	AOAC 993.14 MODIFIED
Cobalt by ICP	AOAC 993.14, 975.03 MODIFIED
Copper by ICP	AOAC 975.03, 980.03, 993.14, 985.35 MODIFIED
Iron by ICP	AOAC 985.01 MODIFIED
Lead by ICP	AOAC 979.17, 993.14 MODIFIED
Lead by Leaching	AOAC 973.32, ASTM C738 (MODIFIED FOR ICP & SOAK)
Magnesium by ICP	AOAC 985.35, 968.08, 984.27, 935.13, 975.03 MODIFIED
Manganese by ICP	AOAC 985.35, 935.13 965.09, 975.03 MODIFIED
Metal Scan I, ICP	AOAC 985.35, 965.09, 975.03, 993.14 MODIFIED
Nickel by ICP	AOAC 971.20, 993.14 MODIFIED
Phosphorous by ICP	AOAC 984.27, 985.01, 980.03 MODIFIED
Potassium by ICP	AOAC 985.35, 935
Sodium by ICP	AOAC 985.35, 984.27, 980.03 MODIFIED
Titanium by ICP	AOAC 985.35, 980.03 MODIFIED
Zinc by ICP	AOAC 968.08, 985.35, 935.13, 975.03, 980.03 MODIFIED

TEST NAME	METHOD REFERENCE
Ash	AOAC 923.03
Beta Carotene	METHODS OF VITAMIN ASSAY 3RD. ED. CHAPTER 5
Calcium by ICP	AOAC 968.08, 985.35, 935.13, 985.01 MODIFIED
Calories (Calculation)	CALCULATION
Carbohydrates (Calculation)	CALCULATION
Cholesterol by GC	U.S. FDA LIPID MANUAL 1992
Fat, Acid Hydrolysis	AOAC 935.39, 922.06, 948.15, OR 950.54
Fat, Modified Mojonnier (Roese-Gottlieb)	SMEDP 15.086
Fat, Soxhlet	AOAC 963.15, 920.39, 960.39, 948.22, USDA
Fatty Acid Profile, GC w/ trans Fatty Acids	AOAC 996.06 & AOCS CE/C - 89(92)
Insoluble Dietary Fiber	AOAC
Iron by ICP	AOAC 985.01 MODIFIED
Moisture, Drying Oven, AOAC	AOAC 950.46B / USDA CLG.M01.03
Nutrition Label, camera-ready	-
Pantothenic Acid, Vitamin B5 (Microbiological)	METHODS OF VITAMIN ASSAY 3RD ED., CH 9
Protein, Leco	AOAC 990.03, 992.15, 992.23
Riboflavin, Vitamin B2 (Microbiological)	METHODS OF VITAMIN ASSAY
Sodium by ICP	AOAC 985.35, 984.27, 980.03 MODIFIED
Soluble Dietary Fiber	AOAC
Sugar Profile by HPLC	AOAC 982.14 AND 984.22
Total Dietary Fiber	AOAC 985.29
Vitamin A (Total Retinol), HPLC	AOAC 994.02; 974.29 (Modified)
Vitamin B: B1, B2, B3, B5, B6, B7, B9, B12	HPLC
Vitamin C by HPLC	HPLC
Vitamin C, Iodine Titration	FCC
Vitamin D by HPLC	AOAC 982.29 MODIFIED
Vitamin E (Total) by HPLC	HPLC



PACKAGING TESTS

TEST NAME	METHOD REFERENCE
Disintegration Test for Paper and Paperboard	SMEDP 13.042
Headspace Analysis (CO ₂ , N ₂ , O ₂)	ASTM
Nutrition Label, camera-ready	-
Residual Bacteria Count	CMMEF 3.51
Residual Bacteria Count for Pasteurized Milk Containers	SMEDP 13.041
Residual Coliform Count	CMMEF 3.51
Residual Coliform Count for Pasteurized Milk Containers	SMEDP 13.041

PESTICIDES

TEST NAME	METHOD REFERENCE
Pesticides, OC Screen	CDFA
Pesticides, ON Screen	CDFA
Pesticides, OP Screen	CDFA
Pesticides, Pyrethroid Screen	CDFA
Pesticides, Single-residue Screen	CDFA

PHYSICAL TESTS

TEST NAME	METHOD REFERENCE
% Glazing of Seafood	NIST
Density, AOAC	AOAC 945.06 MODIFIED
Description / Appearance	
Granulation (1-6 seives)	CMMEF CHAPTER 4
Odor	-
Optical Rotation	FCC or USP
Organoleptic, Full	
Penetrometer	ASTM
Scorched Particles	SMEDP 15.172
Sediments in Milk Products	SMEDP 15.072
Specific Gravity	AOAC 945.06, 955.37
Specific Rotation	USP
Viscosity Brookfield, DV-E	BROOKFIELD, DV-E

PRESERVATIVES

TEST NAME	METHOD REFERENCE
Benzoic Acid by HPLC	HPLC
BHA by GC	GC
BHT by GC	GC
Citrate by HPLC	HPLC
Citric Acid by HPLC	HPLC
Monosodium Glutamate (MSG) by EIA	EIA
Potassium Sorbate, HPLC	HPLC
Sodium Benzoate by HPLC	HPLC
Sulfite, Optimized Monier-Williams	AOAC 990.28
TBHQ by GC	GC
Total Benzoate by HPLC, ppm	HPLC

TEST NAME	METHOD REFERENCE
Acetone Insoluble Matter	FCC or USP
Acid Insoluble Ash	FCC or USP
Acid Insoluble Substances	USP
Acid Soluble Substances	FCC APPENDIX I
Acid Value	FCC APPENDIX I
Acidic Dyes	USP
Acidity or Alkalinity	FCC or USP
Aerobic Plate Count (USP)	USP
Alkalinity	FCC or USP
Alpha Lipoic Acid Assay	USP
Ammonium Salts	FCC or USP
Antimicrobial Effectiveness Test - Category 3 Product	USP
Assay by IR for FCC / USP	FCC or USP
Assay test by GC	FCC or USP
Assay test by HPLC	FCC or USP
Assay test by Spectrophotometer	FCC or USP
Assay test for USP	USP
Barium	USP
Benzoate and Salicylate	FCC 954
Bioburden	USP
Bulk Density	USP METHOD II
Burkholderia cepacia	USP
Calcium	USP
Calcium Carbonate	FCC 170(i)
Candida genus	USP
Carbonate	USP
Chloride	FCC or USP
Chlorinated Compounds	USP
Chromatographic Purity by GC	USP

TEST NAME	METHOD REFERENCE
Chromatographic Purity by HPLC	USP
Clarity of Solution	USP
Clostridium Perfringens, P/A	USP
Color of Solution	USP
Degree of Substitution	USP
Dextrin	USP
Dextrose Equivalent	FCC or USP
Enterobacteriaceae, USP	USP
Fatty Acids and Esters	FCC or USP
Heavy Metals	FCC APPENDIX III PART A or USP
Hexane Insoluble Matter	FCC or USP
Hydrolyzable Substances	USP
Hydroxymethylfurfural (on dry basis)	FCC
Identification by FCC	FCC
Identification by FCC part A	FCC
Identification by FCC part B	FCC
Identification by FCC part C	FCC
Identification by FCC, HPLC	FCC
Identification by FCC, TLC	FCC
Identification by GC, USP	USP
Identification by 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
Identification by USP/NF, HPLC	USP
Identification by USP/NF, TLC	USP
Insoluble Matter	FCC

TEST NAME	METHOD REFERENCE
Invert Sugar	FCC APPENDIX V
Klebsiella, USP	USP
Limit of Alkalies and Alkaline Earth	USP
Limit of benzoate and salicylate	USP MODIFIED
Limit of Bromides	USP
Limit of Hydrolysis Products NF	USP/NF
Limit of magnesium and alkali salts	USP
Limit of Methanol NF	USP
Limit of Nitrite	USP
Limit of Nonvolatile Residue	USP
Limit of Oxalate	FCC APPENDIX I
Limit of Oxalic Acid	USP
Limit of p-chloroaniline by HPLC	USP
Limit of Phosphate	USP
Loss on Drying	FCC or USP
Loss on Ignition	FCC or USP
Magnesium and Alkali Salts	FCC APPENDIX I
Magnesium and Alkaline- earth metals	USP
Moisture	USP
Moisture, FCC Method II (Toluene Distillation)	FCC APPENDIX I
Moisture, Karl Fischer	FCC or USP
Mold (USP)	USP
Mold, Howard Count	USDA
Mono- and Di- Saccharides	FCC APPENDIX V
Nitrite	USP
Oleic Acid	FCC
Optical Rotation	FCC or USP
Organic Impurities by FCC Monograph, HPLC	FCC
Pesticides, USP	USP

TEST NAME	METHOD REFERENCE
pH by FCC/USP	FCC or USP
Proteus spp.	USP
Pseudomonas (USP)	USP
Pseudomonas Aeruginosa (USP)	USP
Quercetin (Content of flavonol glycosides)	USP GINGKO MONOGRAPH
Readily Carbonizable Substances	FCC or USP
Readily Oxidizable Substances	FCC or USP
Reducing Sugars	FCC or USP
Refractive Index	USP
Related Compounds - Glycerin	USP Monograph: Glycerin Official 12/1/2009
Residual Solvents	FCC
Residual Solvents Acetic & Formic Acids in Aspartame, HPLC	HPLC
Residual Solvents as Methanol in Aspartame Quantification	USP Modified
Residual Solvents Identification (as of July 2008)	FCC or USP
Residual Solvents Quantification (as of July 2008)	FCC or USP
Residual Styrene	FCC
Residue on Ignition	FCC or USP
Salmonella, (USP)	USP
Solubility	FCC or USP
Soluble Ash	FCC or USP
Soluble Salts	FCC APPENDIX I
Specific Rotation	USP
Staphylococcus (USP)	USP
Staphylococcus aureus (USP)	USP
Starch	FCC or USP
Sulfate	FCC or USP
Sulfated Ash	USP
Sulfur Dioxide	FCC APPENDIX I
Sulfur Dioxide	USP

TEST NAME	METHOD REFERENCE
Sulfur Dioxide	USP
Tapped Density	USP (616) METHOD I
Tartrate	USP
Total Ash	FCC or USP
Total Monoglycerides	FCC APPENDIX V
Total Polyphenols as EGCG and Total Polyphenols	USP
Total Sugar	FCC or USP
Total Unsaturation	FCC APPENDIX V
Transmittance	USP
Unsaponifiable Matter	FCC or USP
Unsaturated Compounds	FCC APPENDIX I
Vitamin C, Iodine Titration	FCC
Volatile fatty acid	USP
Water Insoluble Substances	FCC or USP
Water Soluble Substances	FCC or USP
Yeast & Mold (USP)	USP
Yeast (USP)	USP

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SUGARS & SWEETENERS

TEST NAME	METHOD REFERENCE
Acesulfame-K	HPLC
Arabinitol by HPLC	HPLC
Aspartame by HPLC	HPLC
Degradation Products in Neotame, As Is	HPLC
Dextrose Equivalent	FCC or USP
Erythritol by HPLC	HPLC
Fructose from Sugar Profile By HPLC	AOAC 984.22
Galactitol by HPLC	HPLC
Galactose by HPLC	HPLC
Glucose from Sugar Profile By HPLC	AOAC 984.22
Glycerol by HPLC (Glycerine)	HPLC
Inositol	METH. OF ANALYSIS FOR INFANT FORMULA SECTION C-7, 1985 MOD
Lactose from Sugar Profile By HPLC	AOAC 984.22
Maltitol by HPLC	HPLC
Maltodextrin by HPLC	HPLC
Maltose from Sugar Profile By HPLC	AOAC 984.22
Mannitol by HPLC	HPLC
Neotame by HPLC	HPLC
Saccharin by HPLC	HPLC
Sorbitol by HPLC	HPLC
Stevia Rebaudioside A by HPLC	HPLC
Sucralose by HPLC	HPLC, USP MODIFIED
Sucrose from Sugar Profile By HPLC	HPLC
Sugar Alcohols by HPLC	HPLC
Sugar, Total as Invert	AOAC 931.07 MODIFIED
Tagatose by HPLC	HPLC
Xylitol by HPLC	HPLC

TOXINS

TEST NAME	METHOD REFERENCE
Aflatoxins (B1, B2, G1, G2) by EIA	EIA
Patulin	HPLC, AOAC 995.10
Staphylococcus Enterotoxin (FDA/BAM)	FDA/BAM VIDAS

VITAMINS

TEST NAME	METHOD REFERENCE
Beta Carotene	METHODS OF VITAMIN ASSAY 3RD. ED. CHAPTER 5
Biotin by HPLC	HPLC
Biotin per serving, Microbiological Assay	METHODS OF VITAMIN ASSAY 3RD ED. CHAPTER 12
Folic Acid, Vitamin B9 (Microbiological)	METHODS OF VIATMIN ASSAY 3RD ED., CH 11
Pantothenic Acid, Vitamin B5 (Microbiological)	METHODS OF VITAMIN ASSAY 3RD ED., CH 9
Riboflavin, Vitamin B2 (Microbiological)	METHODS OF VITAMIN ASSAY
Vitamin A (Total Retinol), HPLC	AOAC 994.02; 974.29 (Modified)
Vitamin B: B1, B2, B3, B5, B6, B7, B9, B12	HPLC
Vitamin C by HPLC	HPLC
Vitamin C, Iodine Titration	FCC
Vitamin D by HPLC	AOAC 982.29 MODIFIED
Vitamin E (Total) by HPLC	HPLC
Vitamin K1	HPLC

WATER

TEST NAME	METHOD REFERENCE
Aerobic Plate Count, Water (FDA/BAM)	FDA/BAM CHAPTER 3
Aerobic Plate Count, Water (Membrane Filtration) USP	USP
Aerobic Plate Count, Water (Petrifilm)	AOAC 990.12
Aerobic Plate Count, Water USP	USP
Alkalinity of Water	SMEWW 4500
Bicarbonate in Water	SMEWW 4500

TEST NAME	METHOD REFERENCE
Calcium Carbonate in water	SMEWW 2330
Carbonate in Water	SMEWW 5550
Chloride, Water	SMEWW 4500 Cl
Chlorine, Free	SMEWW 4500
Chlorine, Total in Water	SMEWW 4500
Coliform & E. coli in Water (MPN)	SMEWW 9221C
Coliform & E. coli in Water (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform in Water (MPN)	SMEWW 9221C
Coliform in Water (MPN) (FDA/BAM)	FDA/BAM CHAPTER 4
Coliform in Water (Petrifilm)	AOAC 991.14 & 998.08
Coliform in Water (VRBA) (FDA/BAM)	FDA/BAM CHAPTER 4
Conductivity	SMEWW 2510
Fecal Coliform, Membrane Filter, Water	SMEWW 9222D
Fecal Streptococcus, KF, Water	SMEWW 9222D
Hardness (Calculation from Ca & Mg) - Water	SMEWW 2340
Hardness in Water by EDTA Titration	SMEWW 2340 C
Nitrate as Nitrogen in Water, Test Kit	HACH
Nitrite as Nitrogen in Water, Test Kit	HACH
pH of water	AOAC 973.41
Pseudomonas Aeruginosa Count, Water (FDA/BAM)	FDA/BAM CHAPTER 23
Sediments in Water	SMEWW 8510
Standard Heterotrophic Plate Count, Water	SMEWW 9215 / 9215D
Total Coliform in Water (Membrane Filter)	SMEWW 9222B
Water Safety, Coliform/E.coli, Private or Public	IDEXX COLILERT / COLISURE
Water Safety, Total Coliform MPN	SMEWW 9221
Yeast & Mold, water (FDA/BAM)	FDA/BAM CHAPTER 18
Yeast & Mold, water (Membrane Filtration)	SMEWW 9610
Yeast & Mold, water (Petrifilm)	AOAC 997.02

