

SCOPE OF ACCREDITATION

NSF International
ANN ARBOR LABORATORY
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Ann Arbor, MI
48105

Accredited Laboratory No. 246
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

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CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Biological, Chemical/Physical, Electrical/Electronic,
Mechanical/Physical

PROGRAM SPECIALTY AREA: Test Method Development and Evaluation and Non-routine
Testing

ISSUED ON: 2011-02-10

VALID TO: 2012-12-08

TEST METHOD DEVELOPMENT & EVALUATION AND NON-ROUTINE TESTING

Note: Laboratories accredited under this Program Specialty Area have demonstrated that they meet ISO/IEC 17025 requirements for routine testing under the same product classification as described below.

Athletic Banned Substances in Ingredients and Finished Products for Dietary Supplements, Functional Foods and Drinks

Includes compounds in the categories of diuretics, steroids, stimulants, beta-agonists, masking agents, hormone antagonists and drugs of abuse.

Description of Activities:

The NSF International Chemistry Laboratory analyzes ingredients and finished products for dietary supplements, functional foods, including nutritional drinks and bars for athletic banned substances in parts per billion levels (ppb) in support of client requests by using validated methods or modifying/adapting and verifying existing methods. The laboratory develops and verifies mass spectral techniques for the confirmation of the identity of athletic banned substances.

Techniques for which the laboratory is accredited:

- a) Gas chromatography - Tandem Quadruple Mass Spectrometry (GC-MS-MS)
- b) Liquid chromatography - Tandem Mass Spectroscopy (LC-MS-MS)
- c) Sample preparation, extraction, separation and general chemical test

Applicable SOPs:

SOP#7667 Analysis of Anabolic Steroids In Dietary Supplements and Functional Foods by GC-MS-MS

SOP#8688 Analysis of Stimulants in Dietary Supplements and Functional Foods by LC-MS-MS

SOP#9871 Analysis of Steroids in Dietary Supplements and Functional Foods by LC-MS-MS

SOP#9869 Analysis of Diuretics in Dietary Supplements and Functional Foods by LC-MS-MS

CONSTRUCTION

Construction Materials

**(Other (Specify):
(Handling Equipment, Gaseous Fuels)**

ANSI Z21.15/CSA 9.1	Manually operated gas valves for appliances, appliance connector valves and hose end valves
ANSI Z21.24/CSA 6.10	Connectors for Gas Appliances
ANSI Z21.75/CSA 6.27	Connectors for Outdoor Gas Appliances and Manufactured Homes
ASME B16.40	Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems
ASME B16.44	Manually Operated Metallic Gas Valves for use in Above Ground Piping Systems up to 5 psi
ASTM D2513	Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings Except for: Section A1.3.7 - ISO13477/ISO13478 Section A1.5.12 - ISO13477/ISO13478
CGA 3.16	Lever Operated Non-Lubricated Gas Shut-Off Valves

Floor Coverings (See also FIBRE, METAL, ELAS and WOOD Sections)

ANSI/NSF 52 Supplemental Flooring (based on ASTM G21 Recommended Practice for Determining Resistance of Synthetic Polymeric Material to Fungi)

Plumbing Products (See also ELAS, METAL and NONMETAL Sections)

AS 2492	Cross-linked polyethylene (PE-X) pipes for pressure applications.
AS 2537	Mechanical jointing fittings for use with cross-linked polyethylene (PE-X) pipe for hot and cold water applications.
AS 3497	Drinking water treatment units - Plumbing requirements.
AS 3499	Water supply - Flexible hose assemblies.
AS 3707	Method for Testing Pressure Cycling Resistance of Pipes and Fittings
AS 3718	Water supply - Tap ware.
AS 4020	Testing of products for use in contact with drinking water.
AS 4348	Water supply - Domestic type water treatment appliances - Performance requirements.
ASME 112.14.3	Grease Interceptors
ASME 112.14.4	Grease Removal Devices
ASME A112.1.2	Air Gaps in Plumbing Fixtures
ASME A112.18.1/CSA B125.1	Plumbing Supply Fittings
ASME A112.18.2/CSA B125.2	Plumbing Waste Fittings
ASME A112.18.3	Performance Requirements for Backflow Devices And Systems In Plumbing Fixture Fittings
ASME A112.18.6	Flexible Water Connectors
ASME A112.18.7	Deck Mounted Bath/shower Transfer Valves with Integral Backflow Protection
ASME A112.19.1/CSA B45.2	Enameled Cast Iron and Enameled Steel Plumbing Fixtures
ASME A112.19.10	Dual Flush Devices for Water Closets
ASME A112.19.17	Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems
ASME A112.19.2/CSA B45.1	Ceramic Plumbing Fixtures
ASME A112.19.3/CSA B45.4	Stainless Steel Plumbing Fixtures
ASME A112.19.4	Porcelain Enameled Formed Steel Plumbing Fixtures
ASME A112.19.5	Trim for Water Closet Bowls, Tanks and Urinals
ASME A112.19.6	Hydraulic Performance Requirements for Water Closets and Urinals
ASME A112.19.7	Whirlpool Bathtub Appliances
ASME A112.19.8	Suction Fittings for Swimming & Wading Pools Spas Hot Tubs & Whirlpool Bathtub Appliances
ASME A112.19.9	Non-Vitreous Ceramic Plumbing Fixtures
ASME A112.21.1	Floor and Trench Drains
ASME A112.21.3	Hydrants for Utility and Maintenance Use
ASME A112.3.1	Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above and Below Ground
ASME A112.36.2	Cleanouts

ASME B16.22	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
ASSE 1001	Pipe Applied Atmospheric Type Vacuum Breakers
ASSE 1002	Anti-Siphon Fill Valves for Water Closet Tanks
ASSE 1003	Water Pressure Reducing Valves for Domestic Water Supply Systems
ASSE 1004	Backflow Prevention Requirements for Commercial Dishwashing Machines
ASSE 1006	Residential use Dishwashers
ASSE 1010	Water Hammer Arresters
ASSE 1013	Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers
ASSE 1015	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
ASSE 1016	Automatic Compensating Valves for Individual Showers and Tub/Show Combinations
ASSE 1017	Temperature Actuated Mixing Valves for Hot Water Distribution Systems
ASSE 1018	Trap Seal Primer Valves Potable Water Supplied
ASSE 1019	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type
ASSE 1020	Pressure Vacuum Breaker Assembly
ASSE 1021	DrainAir Gaps for Domestic Dishwasher Applications
ASSE 1022	Backflow Preventer for Carbonated Beverage Equipment
ASSE 1023	Hot Water Dispensers Household Storage Type Electrical
ASSE 1024	Dual Check Valve Backflow Preventers
ASSE 1025	Diverters for Plumbing Faucets with Hose Spray, Anti-siphon Type Residential Application
ASSE 1032	Dual Check Valve Type Backflow Preventers For Carbonated Beverage Dispensers - Post Mix Type
ASSE 1035	Laboratory Faucet Backflow Preventers
ASSE 1037	Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures
ASSE 1047	Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies
ASSE 1048	Double Check Detector Fire Protection Backflow Prevention Assemblies
ASSE 1050	Stack Air Admittance Valves for Sanitary Drainage Systems
ASSE 1051	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
ASSE 1052	Hose Connection Backflow Preventers
ASSE 1056	Spill Resistant Vacuum Breaker
ASSE 1060	Outdoor Enclosures for Backflow Prevention Assemblies
ASSE 1061	Push Fit Fittings
ASSE 1070	Water Temperature Limiting Devices
ASTM A1045	Flexible Poly (Vinyl Chloride) (PVC) Gaskets used in Connection

	of Water Closets to Sanitary Drainage System
ASTM D1248	Specification for Polyethylene Plastics Molding and Extrusion Materials
ASTM D1527	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedule 40 and 80
ASTM D1599	Test Method for Short-Term Hydraulic Failure Pressure of Plastic Pipe, Tubing and Fittings
ASTM D1784	Specification for Rigid Poly Vinyl Chloride (PVC) Compounds and Chlorinated Poly Vinyl Chloride (CPVC) Compounds
ASTM D1785	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
ASTM D1788	Specification for Rigid Acrylonitrile -Butadiene-Styrene (ABS) Plastics
ASTM D2104	Specification for Polyethylene (PE) Plastic Pipe Schedule 40
ASTM D2122	Method for Determining Dimensions of Thermoplastic Pipe and Fittings
ASTM D2235	Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
ASTM D2239	Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
ASTM D2240	Test Method for Rubber Property-Durometer Hardness
ASTM D2241	Specification for Poly (Vinyl Chloride) (PVC) Pressure Rated Pipe (SDR Series)
ASTM D2282	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe
ASTM D2444	Test Method for Impact Resistance Thermoplastic Pipe and Fittings by Means of Tup
ASTM D2447	Specification for Polyethylene (PE) Plastic Pipe Schedule 40 and 80 Based on Outside Diameter
ASTM D2464	Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
ASTM D2466	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
ASTM D2467	Specification for Socket-Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
ASTM D2468	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings, Schedule 40
ASTM D2564	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems
ASTM D2581	Specification for Polybutylene (PB) Plastics Molding and Extrusion Materials
ASTM D2609	Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
ASTM D2661	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM D2662	Specification for Polybutylene (PB) Plastic Pipe (SDR-PR)
ASTM D2665	Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2666	Specification for Polybutylene (PB) Plastic Tubing
ASTM D2672	Specification for PVC Pipe Using Solvent Cement
ASTM D2729	Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
ASTM D2737	Specification for Polyethylene (PE) Plastic Tubing
ASTM D2740	Specification for Poly (Vinyl Chloride) (PVC) Plastic Tubing
ASTM D2751	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
ASTM D2846	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot - and Cold - Water Distribution Systems
ASTM D2949	Specification for 3.25 in Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM D2996	Specification for Filament -Wound Reinforced Thermosetting Resin Pipe
ASTM D2997	Specification for Centrifugally Cast Reinforced Thermosetting Resin Pipe
ASTM D3000	Specification for Polybutylene (PB) Plastic Pipe (SDR-PR) Based on Outside Diameter
ASTM D3033	Specification for Type PSP Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
ASTM D3034	Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
ASTM D3035	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Outside Diameter
ASTM D3138	Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components
ASTM D3139	Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
ASTM D3212	Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
ASTM D3222	Standard Specification for Unmodified Poly(Vinylidene Fluoride) (PVDF) Molding Extrusion and Coating Materials
ASTM D3309	Specification for Polybutylene (PB) Plastic Hot Water Distribution Systems
ASTM D3311	Standard Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns
ASTM D3350	Specification for Polyethylene Plastics Pipe and Fittings Material
ASTM D3517	Specification for "Fiberglass" (Glass-Fiber-Reinforced-Thermosetting-Resin) Pressure Pipe
ASTM D3915	Specification for Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Pressure Applications
ASTM D3965	Specification for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Compounds for Pipe and Fittings
ASTM D4066	Specification for Nylon Injection and Extrusion Materials
ASTM D4067	Standard Classification System for Reinforced and Filled Poly(Phenylene Sulfide) (PPS) Injection Molding and Extrusion

	Materials Using ASTM Methods
ASTM D4101	Specification for Propylene Plastic Injection and Extrusion Materials
ASTM D4181	Specification for Acetal (POM) Molding and Extrusion Materials
ASTM D4396	Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related Plastic Compounds for Nonpressure Piping Products
ASTM D4551	Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane
ASTM D543	Plumbing Fittings Test Method for Resistance of Plastics to Chemical Reagents
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D6394	Standard Specification for Sulfone Plastics
ASTM D6778	Standard Classification for Polyoxymethylene (POM, Acetal) Molding and Extrusion Materials
ASTM E202	Test Methods for Analysis of Ethylene Glycol and Propylene Glycol
ASTM F1216	Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
ASTM F1281	Standard Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe
ASTM F1282	Standard Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
ASTM F1336	Standard Specification for Poly(Vinyl Chloride) (PVC) Gasketed Sewer Fittings
ASTM F1412	Standard Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems
ASTM F1488	Standard Specification for Coextruded Composite Pipe
ASTM F1673	Standard Specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems
ASTM F1807	Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
ASTM F1866	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings
ASTM F1960	Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing
ASTM F1970	Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems
ASTM F1974	Standard Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe
ASTM F2080	Standard Specification for Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe
ASTM F2098	Standard Specification for Stainless Steel Clamps for Securing

	SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings
ASTM F2159	Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
ASTM F2389	Standard Specification for Pressure-rated Polypropylene (PP) Piping Systems
ASTM F2434	Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing
ASTM F2623	Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing
ASTM F409	Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
ASTM F437	Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings, Schedule 80
ASTM F438	Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
ASTM F439	Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
ASTM F441	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
ASTM F442	Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDR PR)
ASTM F480	Specification for Thermoplastic Water Well Casing Pipe and Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 80
ASTM F493	Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
ASTM F628	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core
ASTM F656	Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
ASTM F714	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter
ASTM F876	Standard Specification for Crosslinked Polyethylene (PEX) Tubing
ASTM F877	Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot-Cold-Water Distribution Systems
ASTM F891	Standard Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core
ASTM F949	Specification for Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings
AWWA C115	FLANGED DUCTILE IRON PIPE WITH DUCTILE-IRON OR GRAY-IRON THREADED FLANGES
AWWA C510	Double-Check Valve Backflow-Prevention Assembly
AWWA C511	Reduced-Pressure-Principle Backflow-Prevention Assembly
AWWA C606	Standard for Grooved and Shouldered Joints
AWWA C900	Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4

	In. Through 12 In. (100 mm Through 300 mm), for Water Transmission and Distribution
AWWA C901	Polyethylene (PE) Pressure Pipe and Tubing, ½" through 3", for Water Service
AWWA C902	Polybutylene (PB) Pressure Pipe and Tubing, ½" through 3", for Water
AWWA C904	Cross-Linked Polyethylene (PEX) Pressure Pipes, ½ In. (12 mm) Through 3 In. (76 mm) for Water Service
AWWA C905	Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 In. Through 48 In. (350 mm Through 1,200 mm), for Water Transmission and Distribution
AWWA C906	Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100 mm) Through 63 In. (1,600 mm), for Water Distribution and Transmission
CSA B125.3	Plumbing Fittings
CSA B137.1	Polyethylene (PE) pipe, tubing, and fittings for cold-water pressure services
CSA B137.10	Crosslinked polyethylene/aluminum/ crosslinked polyethylene (PEX-AL-PEX) composite pressure-pipe systems
CSA B137.11	Polypropylene (PP-R) pipe and fittings for pressure applications
CSA B137.2	Polyvinylchloride (PVC) injection-moulded gasketed fittings for pressure applications
CSA B137.3	Rigid polyvinylchloride (PVC) pipe and fittings for pressure applications
CSA B137.4	Polyethylene (PE) piping systems for gas services
CSA B137.5	Crosslinked polyethylene (PEX) tubing systems for pressure applications
CSA B137.6	Chlorinated polyvinylchloride (CPVC) pipe, tubing, and fittings for hot- and cold-water distribution systems
CSA B137.8	Polybutylene (PB) piping systems for pressure applications
CSA B137.9	Polyethylene/aluminum/polyethylene (PE-AL-PE) composite pressure-pipe systems
CSA B181.1	Acrylonitrile-butadiene-styrene (ABS) drain, waste, and vent pipe and pipe fittings
CSA B181.2	PVC Drain, Waste, and Vent Pipe and Pipe Fittings
CSA B181.3	Polyolefin Laboratory Drainage Systems
CSA B182.1	Plastic Drain and Sewer Pipe and Pipe Fittings
CSA B182.2	PVC Sewer Pipe and Fittings (PSM Type)
CSA B183.5	Coextruded ABS/PVC Drain, Waste, and Vent Pipe
CSA B34.10	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
CSA B45.0	General Requirements for plumbing fixtures
CSA B45.10	Hydromassage bathtubs
CSA B45.3	Porcelain-Enamelled Steel Plumbing Fixtures
CSA B45.5	Plastic Plumbing Fixtures
CSA B45.6	Non-recirculating Toilets and Waste Holding Tanks for use in Recreational Vehicles
CSA B45.7	Self-Contained, Recirculating, Chemically Controlled Toilets for Use in Recreational Vehicles

CSA B45.9	Macerating Systems and Related Components
CSA B481.0	Material, design, and construction requirements for grease interceptors
CSA B481.1	Testing and rating of grease interceptors using lard
CSA B481.2	Testing and rating of grease interceptors using oil
CSA B481.3	Sizing, selection, location, and installation of grease interceptors
CSA B481.4	Maintenance of grease interceptors
CSA B602	Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe
CSA B64	Backflow Preventers and Vacuum Breakers
CSA B66	Prefabricated Septic Tanks and Sewage Holding Tanks
CSA B79	Commercial and residential drains and cleanouts
CSA C448	Design and Installation of Earth Energy Systems (C448.1, C448.2, C448.3) plastic pipe and fittings only
CSA Z240.3.2-99	Plumbing Requirements for Recreational Vehicles
DIN 8074	Polyethylene (PE) - Pipes PE 63, PE 80, PE 100, PE-HD - Dimensions
DIN 8075	Polyethylene (PE) pipes - PE 63, PE 80, PE 100, PE-HD - General quality requirements, testing
IAPMO IGC 188	Push Fit Fittings
IAPMO IGC-157	Ball Valves
IAPMO IGC-210	CHLORINATED POLY(VINYL CHLORIDE)(CPVC) PIPE & FITTINGS FOR LIMITED CHEMICAL WASTE DRAINAGE SYSTEMS
IAPMO PS-117	COPPER AND COPPER ALLOY TUBING SYSTEM INCORPORATING PRESS-TYPE OR NAIL-TYPE CONNECTIONS
IAPMO PS-65	AIRGAP UNITS FOR WATER CONDITIONING EQUIPMENT INSTALLATION
IAPMO/ANSI Z1000	PREFABRICATED SEPTIC TANKS
IAPMO/ANSI Z124.1.2	Plastic Bathtub and Shower Units
IAPMO/ANSI Z124.3	Plastic Lavatories
IAPMO/ANSI Z124.4	Plastic Water Closet Bowls and Tanks
NSF/ANSI 14	Plastics Piping System Components and Related Materials
NSF/ANSI 24	Plumbing System Components for Recreational Vehicles

ELASTOMERS AND PROTECTIVE AND OTHER COATINGS

Plastics; Resins and Rubbers:

Plastics

AESOP #8182	FT-IR Test for Lubricants
ASTM D256	Standard Test Method for determining the Izod Pendulum Impact Resistance of Plastics (only for Method A)
ASTM D5338	

ASTM D638	Standard Test Method for Determining Aerobic Biodegradation of Plastic Materials Under Controlled Composting Conditions
ASTM D6400	Test Method for Tensile Properties of Plastics
ASTM D6868	Evaluating the Compostability & Biodegradability of Plastic Products
	Biodegradable Plastics Used as Coatings on Paper and Other Compostable Substrates

ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

Electrical Appliances:

Miscellaneous Electrical Appliances (Specify)

(Energy Efficiency Verification (EEV))

ASHRAE standard 117 (Superseded by ASHRAE standard 72)	Method of Testing Closed Refrigerators
ASHRAE Standard 32.1 sections 1 to 7.2	Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages (Ice Machines)
ASHRAE standard 72	Method of Testing Commercial Refrigerators and Freezers
CAN/CSA-C191	Performance of Electric Storage Tank Water Heaters for Domestic Hot Water Service
CAN/CSA-C300	Energy Performance and Capacity of Household Refrigerators, Refrigerator-Freezers, Freezers, and Wine Chillers
CAN/CSA-C358	Energy Consumption Test Methods for Household Electric Ranges
CAN/CSA-C373	Energy Consumption Test Methods and Limits for Household Dishwashers
CAN/CSA-C742	Performance of Automatic Ice-Makers and Ice Storage Bins

(Energy Star)

10 CFR 430.23 Subpart B, Appendix A1	Uniform Test Method for Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers
10 CFR 430.23 Subpart B, Appendix C	Uniform Test Method for Measuring the Energy Consumption of Dishwashers
AHAM HRF-1	Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers
ARI 810	Performance Rating of Automatic Commercial Ice-Makers
ASTM F1275	Standard Test Method for Performance of Griddles
ASTM F1361	Standard Test Method for Performance of Open Deep Fat Fryers
ASTM F1484	Standard Test Methods for Performance of Steam Cookers
ASTM F1496	Standard Test Method for Performance of Convection Ovens
ASTM F1521	Standard Test Methods for Performance of Range Tops
ASTM F1605	Standard Test Method for Performance of Double-Sided Griddles

ASTM F1696	Standard Test Method for Energy Performance of Single-Rack, Door-Type Commercial Dishwashing Machines
ASTM F1920	Standard Test Method for Performance of Rack Conveyor, Commercial Dishwashing Machines
ASTM F2022	Standard Test Method for Performance of Booster Heaters
ASTM F2140	Standard Test Method for Performance of Hot Food Holding Cabinets
ASTM F2143	Standard Test Method for Performance of Refrigerated Buffet and Preparation Tables
Energy Star	Program Requirements and Criteria for Dishwashers
Energy Star	Program Requirements for Bottled Water Coolers

Washing Equipment

CAN/CSA-C22.2 No. 211.0 General Requirements and Methods of Testing for Non-Metallic Conduit

CAN/CSA-C22.2 No. 211.1 Rigid Types EB1 and DB2/ES2 PVC Conduit

CAN/CSA-C22.2 No. 211.2 Rigid PVC (Unplasticized) Conduit

CAN/CSA-C22.2 No. 211.3/UL 1684 Reinforced Thermosetting Resin Conduit (RTRC) and Fittings

Except for: 5.16 Weather resistance

UL 1821	Thermoplastic Sprinkler Pipe and Fittings for Fire Protection
UL 514B	Fittings for Cable and Conduit Except for: 42 Current test 46.4 Oil spray test 56.6 Oil spray test 59.4 Oil spray test 46.7 Ultraviolet light and water test 59.6 Ultraviolet light and water conditioning
UL 514C	Nonmetallic Outlet Boxes, Flush-Device Boxes and Covers Except for: 51 Resistance to ultraviolet light and water 55 Hot wire ignition test
UL 514D	Cover Plates for Flush-Mounted Wiring Devices Except for: 5.1.2.3 Resistance to ultraviolet light and water test 5.2.2 Resistance to ignition 5.3.5 Resistance to ultraviolet light and water test
UL 651	

	Schedule 40 and 80 PVC Conduit
	Except for: 18 Sunlight resistance
UL 651A	Type EB and A Rigid PVC Conduit and HDPE Conduit
UL 651B	Continuous Length HDPE Conduit
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
ULC/ORD-C199P	Combustible Piping for Sprinkler Systems Except for: Light and water test, Vibration test

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Occupational Health and Safety:

NSF 49	Class II (Laminar Flow) Biosafety Cabinetry
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Other

(Public Health and Safety)

EPA 110.2 / SM2120-B NSF 2852	Apparent Color
EPA 120.1 / NSF 2885	Specific Conductance
EPA 140.1 / NSF 2838	Threshold Odor Number
EPA 150.1 / NSF 2292	Electrometric Determination of pH
EPA 1613 B / NSF 3121	Dioxins and Furans by Isotope Dilution HRGCMS/HRMS, SOPS 3121,3075
EPA 180.1 / NSF 3564	Determination of Turbidity by Nephelometry
EPA 200.7 / NSF 3083	Determination of Trace Elements in Water and Wastes by Inductively Coupled Plasma
EPA 200.7 / NSF 3083	Calcium Hardness
EPA 200.8 / NSF 2950	Determination of Trace Elements in Water and Wastes by Inductively Coupled Plasma - Mass Spectrometry
EPA 300.0 / NSF 2946	Determination of Inorganic Anions by Ion Chromatography, SOP #2946
EPA 300.1 / NSF 2963	Determination of Inorganic Anions in Drinking Water by Ion Chromatography, SOP #2963
EPA 314 / NSF 3056	Determination of Perchlorate in Water by Ion Chromatography
EPA 335.4 / NSF 3102	Determination of Total Cyanide by Semi-Automated Colorimetry
EPA 350.1 / NSF 6534	Determination of Ammonia Nitrogen by Semi-Automated Colorimetry
EPA 502.2	Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photo Ionization and Electrolytic Conductivity Detectors in Series SOP#2821
EPA 504.1	1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane in water by Microextraction and gas chromatography using Electron Capture

	Detection SOP #3559
EPA 505.0	Analysis of Organohalide Pesticides and Commercial Polychlorinated Biphenyl Products in Water by Micro-Extraction and Gas Chromatography SOP # 3137
EPA 508.1 / NSF 8352	Chlorinated Pesticides in Water by GC/ECD
EPA 515.3	Determination of Chlorinated Acids in Water by Gas Chromatography with an Electron Capture Detector SOP # 3008 extraction SOP#3009
EPA 524.2 / NSF 3004	Volatile Organic Compounds in Water by GC/MS
EPA 525.2	Determination of Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary column Gas Chromatography/Mass Spectrometry SOP #2914 extraction SOP #2943
EPA 531.2	Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates I Water by Direct Aqueous Injection HPLC with Post Column Derivatization SOP # 3150
EPA 547.0	Determination of Glyphosate in Drinking Water by Direct-Aqueous-Injection b HPLC, Post-Column Derivatization, and Fluorescence Detection SOP# 2920
EPA 548.1 / NSF 2924	Determination of Endothall in Drinking Water by Aqueous Derivatization, Liquid-Solid Extraction, and Gas Chromatography with Electron Capture Detection. SOP #2924, extraction SOP#2921
EPA 549.2 / NSF 2923	Determination of Diquat in Drinking Water by Liquid-Solid Extraction and HPLC with Ultraviolet Detection SOP #2923, extraction SOP#2922
EPA 552.2 / NSF 3148	Determination of Haloacetic Acids in Drinking Water by Liquid-Liquid Extraction, Derivatization, and Gas Chromatography with Electron Capture Detection SOP #3148 extraction SOP#2995
EPA 555 / NSF 3129	Determination of Chlorinated Acids in Water By HPLC with a Photodiode Array Ultraviolet Detector SOP#3129
EPA 625.0 / NSF 3130	Base/Neutrals and Acids SOP#3130 extraction SOP# 2895
NSF 2956	Analysis of Bisphenol A and Bisphenol A Adducts by Reverse Phase HPLC
NSF 8485	X-ray Fluorescence (XRF)
SM 2320B	Bicarbonate
SM 2320B / NSF 2929	Automated Titrimetric Determination of Alkalinity
SM 2330B	Corrosivity
SM 2510B / NSF 2855	Laboratory Method for Conductivity
SM 2540C / NSF 3000	Total Dissolved Solids dried at 180°C
SM 4500CL02-D / SM 4500CL-G / NSF 3153	Determination of Chlorine Dioxide and Chloramines
SM 4500CL-G / NSF2919	Determination of Total Residual Chlorine
SM 4500FC / NSF 2903	Fluoride Determination by Ion Selective Electrode
SM 5310C / NSF 3556	Total Organic Carbon by Persulfate - Ultraviolet Oxidation Method
SM 5540-C / NSF 2865	Surfactants, Methylene Blue Active Substances

Water Quality:

(Drinking Water Quality)

ABNT 14908	Device for Improving Water Quality in Residential Application - Pressurized Device
ABNT 15176	Device for Improving Water Quality in Residential Application - Gravity Device
ANSI/NSF 42	Drinking Water Treatment Units - Aesthetic Effects
ANSI/NSF 44	Residential cation exchange water softeners
ANSI/NSF 53	Drinking Water Treatment Units - Health Effects
ANSI/NSF 55	Ultraviolet Microbiological Water Treatment Systems
ANSI/NSF 58	Reverse Osmosis Drinking Water Treatment Systems
ANSI/NSF 60	Drinking Water Treatment Chemicals - Health Effects
ANSI/NSF 61	Drinking Water System Components - Health Effects
ANSI/NSF 61, Section 9	Drinking Water System Components - Health Effects
ANSI/NSF 62	Drinking Water Distillation Systems
ATS 5200.103	Technical Specification for Plumbing and Drainage Products - Water treatment Systems
CSA B483.1	Drinking Water Treatment Systems

(Food Quality; including Bottled Water and Packaged Ice)

NSF 51	Plastic Materials and Components Used in Food Equipment
US FDA, Title 21, 165.110	Requirements for Specific Standardized Beverages (Bottled Water)

(Water - Circulation Systems)

ANSI/NSF 50	Circulation System Components and Related Materials for Swimming Pools, Spas/Hot Tubs
ASTM F2208	Pool Alarms

Recycled Waters

ANSI/NSF 40	Individual Aerobic Wastewater Treatment Plants Only for: APHA 2540F - Settleable Solids APHA 4500-H+B - Electrometric Method for pH Determination APHA 4500-O-B - Dissolved Oxygen Determination
ANSI/NSF 46	Evaluation of components and devices used in the wastewater treatment systems
NSF 41	Wastewater Recycle / Reuse and Water Conservation Devices
NSF C-9	Evaluation of Special Processes, Components, or Devices Used in Treating Wastewater

MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS**Other****(Dietary Supplements)**

3100	Analysis of Beta-Carotene in Dietary Supplements by HPLC
3106	Determination of Soy Isoflavones by HPLC
3112	Analysis Riboflavin (Vitamin B2) in Dietary Supplements by HPLC
3114	Analysis of Folic Acid in Dietary Supplements by HPLC
3115	Analysis of Niacinamide in Dietary Supplements by HPLC
3118	Analysis of Pantothenic Acid in Dietary Supplements by HPLC
3139	Determination of Heavy Metals in Dietary and Herbal Supplements by ICPMS
3140	Microwave Digestion of Dietary/Herbal Supplements and Polymer Drinking Water Additives
6478	Determination of Metals and Minerals in dietary Supplements by ICP and ICPMS
6673	Analysis of Glucosamine and Acetyl Glucosamine in Dietary Supplements by HPLC

(Food Equipment - Other)

ANSI/NSF 12	Automatic Ice Making Equipment
ANSI/NSF 13	Refuse Compactors and Compactor Systems
ANSI/NSF 18	Manual Food and Beverage Dispensing Equipment
ANSI/NSF 2	Food Equipment
ANSI/NSF 20	Commercial Bulk Milk Dispensing Equipment
ANSI/NSF 25	Vending Machines for Food and Beverages
ANSI/NSF 29	Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines
ANSI/NSF 35	Laminated Plastics for Surfacing Food Service Equipment (based on NEMA Publication LD3)
ANSI/NSF 36	Dinnerware
ANSI/NSF 37	Air Curtains for Entranceways in Food and Food Service Establishments
ANSI/NSF 4	Commercial Cooking, Rethermalization and Powered Hot Food Holding and Transport Equipment
ANSI/NSF 59	Food Carts
ANSI/NSF 6	Dispensing Freezers (For Dairy Dessert Type Products)
ANSI/NSF 7	Food Service Refrigerators and Storage Freezers
ANSI/NSF 8	Commercial Powered Food Preparation Equipment
NSF 184	Residential Dishwashers
NSF 3	Commercial Spray Type Dishwashing Machines

NSF 3-A/ANSI 14159	Hygiene Requirements for the Design of Mechanical Belt Conveyors used in Meat and Poultry Processing
NSF 5	Water Heaters, Hot Water Supply Boilers and Heat Recovery Equipment (based on ANSI Z21.10.1, 10.3, 21.13)
NSF/ANSI 169	Special Purpose Food Equipment and Devices

(Microbiological Testing)

10258	Bacteriological Efficiency for Gravity Devices Based on ABNT 15176
10259	Bacteriological Efficiency for Pressurized Devices Based on ABNT 14908
10260	Microbiological Level Control for Pressurized Devices Based on ABNT 14908
10261	Microbiological Level Control for Gravity Devices Based on ABNT 15176
3601	Biohazard Cabinet Test Method for NSF Standard 59
3606	Bacteriostatic Test according to NSF Standard 42
3620	Swimming Pool Disinfection according to AOAC official Method 4.047
3629	Drinking Water and Bottled Water Test Methods Heterotrophic Plate Count by Pour Plate according to APHA s Standard Method for the Examination of Water and Wastewater
3635	Heat Treatment Dispensing Freezer Test Method for NSF Standard 6
3636	In Place Cleaning Test Method for NSF Standards 2, 4, 6, 7, 12 and 18
3638	Ultraviolet Water Treatment Systems Microbial Reduction Method according to NSF Standard 55
3641	Bacteriological Suitability Test
3645	Disinfection Efficacy of Spa or Hot Tub Equipment according to NSF Standard 50
3648	Chlorine (Available) in Disinfectants Germicidal Equivalent Concentration based on AOAC Official Method 955.16
3652	Microbiological Evaluation of Fecal Coliform (MPN) according to APHA s Standard Method for the Examination of Water and Wastewater
3653	Fecal Coliform Membrane Filtration Procedure according to APHA s Standard Method for the Examination of Water and Wastewater
3659	Microbiological Bioassay for Toxic and Hazardous Materials
3661	Detection of Salmonella spp. In Enzymatic Drain Cleaners
3662	Drinking Water and Bottled Water Test Methods Pseudomonas aeruginosa - according to APHA s Standard Method for the Examination of Water and Wastewater
3664	Drinking Water and Bottled Water Test Methods Yeast and Mold based on APHA s Standard Method for the Examination of Water an Wastewater

3668	Dietary Supplement Microbial Contaminant Testing
3676	Coliform and E. coli Testing in Food Products using the 3M Petrifilms based on AOAC Official Method 991.14
3677	Detection of Coliform and E. coli in Water Samples Using the MPN Method - according to APHA s Standard Method for the Examination of Water an Wastewater
3679	Aerobic Plate Count Tests based on AOAC Official Method 990.12
3681	Analysis of E. coli and Coliform Testing of Food Preparation Area Surfaces based on AOAC Official Method 991.14
3683	Analysis of Aerobic Plate Count Testing on Food Preparation Surfaces based on AOAC Official Method 990.12
3687	Analysis of Food Sample for the Detection of Salmonella spp. Using the BAX system
3690	Yeast and Fungi Hygicult Processing
3691	Water Activity and pH Testing based on APHA Compendium of Methods for the Microbiological Evaluation of Foods
3692	Evaluation of Microbiological Growth Potential for NSF Standard 60
3693	Yeast and Mold Testing in Food Products using the 3M Petrifilms based on AOAC Official Method 997.02
3694	Detection of Staphylococcus aureus in Food Products Using the 3M Petrifilm Method based on AOAC Official Method 2003.07
3698	Analysis of Food Sample for the Detection of Listeria spp. And Listeria monocytogenes Using the BAX system
3701	Analysis of Food Samples for the Detection of E. coli O157:H7 using the BAX System
3702	Drinking Water and Bottled Water Test Methods Legionella based on APHA s Standard Method for the Examination of Water and Wastewater
3706	Test Method for Detection of Microspheres in NSF/ANSI Standard 53
3707	Program Test Method for Detecting and Enumerating Cryptosporidium Oocysts in NSF Standard 53
6328	Detection of Total Coliforms and E. coli by the Colilert Method
6798	Standard 52 Supplemental Flooring Microbial Testing
8002	Detection of Listeria Species using SDI RapidChek § Listeria Species Test Kit
8295	Use of the Soleris System for Microbiological Testing
8932	FSIS Method for the Detection, Isolation and Identification of Escherichia coli O157:H7 from Meat Products
8933	Isolation and Identification of Listeria monocytogenes from Red Meat, Poultry, Egg, and Environmental Samples
8934	FSIS Method for the Isolation and Identification of Salmonella from Meat, Poultry and Egg Products

Notes:

AOAC: Association of Official Analytical Chemists Methods

ASTM: American Society for Testing Materials

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

CAN-P-1595: Guidelines for the Accreditation of Laboratories Engaged in Test Method Development & Evaluation and Non-Routine Testing

CSA: Canadian Standards Association

EPA: Environmental Protection Agency

NSF P: NSF In-House Procedure

SM: Standard Methods of American Water Works Association (AWWA)

USEPA: U.S. Environmental Protection Agency

S. Cross, Director, Conformity Assessment

Date: 2011-02-10

Number of Scope Listings: 399

SCC 1003-15/309

Partner File #0

Partner: None