

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** NSF International

Location Name or Operating as (if applicable): NSF Ann Arbor Laboratories

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<b>SCC File Number:</b>	15309
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical Electrical/Electronic Ionizing Radiation Mechanical/Physical Thermal & Fire Resistance
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Test Method Development and Evaluation and Non-routine Testing (TMDNRT)
<b>Initial Accreditation:</b>	1996-12-08
<b>Most Recent Accreditation:</b>	2023-02-06
<b>Accreditation Valid to:</b>	2028-12-08

*Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.*

*Note: This scope of accreditation is also available in French as a document issued separately.*

The following is a Scope of Accreditation for which this testing laboratory has been accredited to ISO/IEC 17025:2017. Note that the parent organization is also accredited as a certification body. The parent organization's Scope of Accreditation for certification activities may be broader than the listing of standards and test methods that appear below. Refer to the parent organization's Scope of Accreditation granted by the SCC for certification activities found at:

<http://www.scc.ca/en/accreditation/product-process-and-service-certification/directory-of-accredited-clients>

Where standards, such as product standards, are listed below, the laboratory is considered accredited only for the testing elements in those standards.

**TEST METHOD DEVELOPMENT & NON-ROUTINE TESTING**

Note: The laboratory accredited under this PSA have demonstrated that it meets ISO/IEC 17025 requirements for non-routine testing under the following product classification.

**Description of Activities under TMDNRT:**

The NSF International Chemistry Laboratory analyzes ingredients and finished products for dietary supplements, functional foods, including nutritional drinks and bars for athletic banned substances.

**Description of Techniques under TMDNRT:**

1. Sample preparation, extraction, separation, and general chemical practices for clean-up of samples prior to instrumental analysis.
2. Gas chromatography - Tandem Quadruple Mass Spectrometry (GC-MS-MS)
3. Liquid chromatography - Tandem Mass Spectroscopy (LC-MS-MS)
4. Liquid chromatography - High Resolution Mass Spectroscopy (LCHRMS)

**ANIMAL AND PLANTS (AGRICULTURE)**

**Foods and Edible Products (Human and Animal Consumption):**

**(Dietary supplements)**

NSF SOP 3100	Analysis of Beta-Carotene in Dietary Supplements by HPLC
NSF SOP 3105	Analysis of Ascorbic Acid (Vitamin C) in Multivitamin/Multimineral Tablets by HPLC
NSF SOP 3112	Analysis Riboflavin (Vitamin B2) in Dietary Supplements by HPLC
NSF SOP 3114	Analysis of Folic Acid in Dietary Supplements by HPLC
NSF SOP 3115	Analysis of Niacinamide in Dietary Supplements by HPLC
NSF SOP 3118	Analysis of Pantothenic Acid in Dietary Supplements by HPLC
NSF SOP 3139	Determination of Heavy Metals in Dietary and Herbal Supplements by ICPMS
NSF SOP 3140	Microwave Digestion of Dietary/Herbal Supplements and Polymer Drinking Water Additives

NSF SOP 6478	Determination of Metals and Minerals in dietary Supplements by ICP and ICPMS
NSF SOP 7682	Analysis of Cholecalciferol (Vitamin D3) in Multivitamin Capsules and Tablets by UPLC-PDA
NSF SOP 7667	Analysis of Anabolic Steroids In Dietary Supplements and Functional Foods by GC-MS-MS
NSF SOP 18148	Screening g-Hydroxybutyric Acid (GHB) in Dietary Supplements, Functional Foods and Energy Drinks by GC-MS/MS
NSF SOP 8688	Analysis of Stimulants in Dietary Supplements and Functional Foods by LC-MS-MS
NSF SOP 9871	Analysis of Steroids in Dietary Supplements and Functional Foods by LC-MS-MS
NSF SOP 9869	Analysis of Diuretics in Dietary Supplements and Functional Foods by LC-MS-MS
NSF SOP 15708	Analysis of Selective Androgen Receptor Modulators (SARMs) and Peroxisome Proliferator-Activated Receptor delta PPAR $\delta$ agonists in Dietary Supplements and Functional Foods by LCMSMS
NSF SOP 17158	Analysis of Banned Substances in Dietary Supplements and Functional Foods by HILIC LCMS
NSF SOP 17025	Analysis of Growth Hormone Releasing Peptides (GHRPs) in Dietary Supplements and Functional Foods by LCHRMS

**(Nutritional drinks)**

NSF SOP 7667	See Dietary supplements
NSF SOP 18148	See Dietary supplements
NSF SOP 8688	See Dietary supplements
NSF SOP 9871	See Dietary supplements
NSF SOP 9869	See Dietary supplements
NSF SOP 15708	See Dietary supplements
NSF SOP 17158	See Dietary supplements
NSF SOP 17025	See Dietary supplements

**(Functional foods: protein powders, performance bars)**

NSF SOP 7667	See Dietary supplements
NSF SOP 18148	See Dietary supplements
NSF SOP 8688	See Dietary supplements
NSF SOP 9871	See Dietary supplements
NSF SOP 9869	See Dietary supplements
NSF SOP 15708	See Dietary supplements
NSF SOP 17158	See Dietary supplements
NSF SOP 17025	See Dietary supplements

## CONSTRUCTION

### Construction Materials (excluding textile products):

#### Floor Coverings

ANSI/NSF 52	Supplemental Flooring Except for: Resistance to Microorganisms <i>Aspergillus niger</i>
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#### Plumbing Products

ANSI/APSP-16	Standard Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs
AS 3497	Drinking water treatment units - Plumbing requirements.
AS 3499	Water supply - Flexible hose assemblies. (Excluding 8.6, 8.7 & Appendix D6 & D7)
AS 3718	Water supply-Tap ware (Except section 2.5.1)
AS/NZS 4020	Testing of products for use in contact with drinking water. (Excluding clauses F7.1 (C) (ii), F7.5.2, F7.7, & F7.8.2)
AS 4348	Water supply - Domestic type water treatment appliances - Performance requirements.
AS 5200.037.2	Plumbing and Drainage Products-Flow Controllers for Use With Heated or Cold Water Systems
ASME 112.14.3	Grease Interceptors
ASME 112.14.4	Grease Removal Devices
ASME A112.1.2	Air Gaps in Plumbing Fixtures
ASME A112.1.3	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances
ASME A112.4.14/CSA B125.14	Manually Operated Valves for Use in Plumbing Systems (Excluding Clauses 5.2.2.2.1 (a), & (d))
ASME A112.18.1/CSA B125.1	Plumbing Supply Fittings Except for: High-Efficiency Shower Heads
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/CSA B125.6	Flexible Water Connectors
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 incorporates ASME A112.19.6 and ASME A112.19.9
ASME A112.19.3/CSA B45.4	Stainless Steel Plumbing Fixtures
ASME A112.3.4/CSA B45.9	Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

ASME A112.36.2	Cleanouts
ASME A112.4.14	Manually Operated Quarter-Turn Shutoff Valves for Use in Plumbing Systems
ASME A112.4.4	Plastic Push-Fit Drain, Waste, and Vent (DMV) Fittings
ASME A112.6.3	Floor and Trench Drains
ASME A112.6.7	Sanitary Floor Sinks Only for stainless steel
ASME B16.22	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
ASME B16.51	Copper and Copper Alloy Press-Connect Pressure Fittings
ASME A112.1016/ASSE 1016/CSA B125.16	Performance Requirements Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
ASSE 1001	Pipe Applied Atmospheric Type Vacuum Breakers
ASSE 1003	Water Pressure Reducing Valves for Domestic Water Supply Systems
ASSE 1004	Backflow Prevention Requirements for Commercial Dishwashing Machines
ASSE 1010	Water Hammer Arresters
ASSE 1011	Performance Requirements for Hose Connection Vacuum Breakers
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 1017	Temperature Actuated Mixing Valves for Hot Water Distribution Systems
ASSE 1019	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type
ASSE 1021	Drain Air Gaps for Domestic Dishwasher Applications
ASSE 1022	Backflow Preventer for Beverage Dispensing Equipment
ASSE 1024	Dual Check Valve Backflow Preventers
ASSE 1032	Dual Check Valve Type Backflow Preventers For Carbonated Beverage Dispensers - Post Mix Type
ASSE 1050	Stack Air Admittance Valves for Sanitary Drainage Systems
ASSE 1051	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
ASSE 1061	Push Fit Fittings
ASSE 1062	Performance Requirements for Temperature Actuated, Flow Reduction Valves for Individual Supply Fittings
ASSE 1069	Performance Requirements for Automatic Temperature Control Mixing Valves
ASSE 1070/ASME A112.1070/CSA B125.70	Performance Requirements for Water Temperature Limiting Devices
ASTM A1045	Flexible Poly (Vinyl Chloride) (PVC) Gaskets used in Connection of Water Closets to Sanitary Drainage System
ASSE 1087	Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water

ASTM C1277	Standard Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings Excluding: ASTM C564 – Ozone test to ASTM D1149
ASTM D1598	Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
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 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 (Only Section 6.1)
ASTM D2240	Test Method for Rubber Property Durometer Hardness
ASTM D2564	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems (Only Section 6.1)
ASTM D3035	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Outside Diameter (Only Section 5.1.1)
ASTM D3222	Standard Specification for Unmodified Poly (Vinylidene Fluoride) (PVDF) Molding Extrusion and Coating Materials Excluding 6.1.3 Refractive Index; 6.1.4 Limiting Oxygen Index; 6.2.2 Rheological properties, 6.4 Electrical Properties)
ASTM D3350	Specification for Polyethylene Plastics Pipe and Fittings Material (Excluding - 10.1.8.1 Hydrostatic Design Basis) Excluding section 10.1.11 Oxidation Resistance test
ASTM D3965	Specification for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Compounds for Pipe and Fittings
ASTM D4066	Specification for Nylon Injection and Extrusion Materials Excluding viscosity (table PA)
ASTM D4067	Standard Classification System for Reinforced and Filled Poly (Phenylene Sulfide) (PPS) Injection Molding and Extrusion Materials Using ASTM Methods (Excluding 12.2 Reinforcement Concentrations) Excluding supplementary requirements
ASTM D4101	Specification for Propylene Plastic Injection and Extrusion Materials (Exclude -13.1.7 Multiaxial Impact Ductile-Brittle Transition Temperature)
ASTM D4396	Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related Plastic Compounds for Nonpressure Piping Products
ASTM D543	Plumbing Fittings Test Method for Resistance of Plastics to Chemical Reagents Excluding section 11.6, color change and Practice B
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 F2389	Standard Specification for Pressure-rated Polypropylene (PP) Piping Systems (only Section 8.2 and 8.3)
ASTM F2929	Standard Specification for Crosslinked Polyethylene (PEX) Tubing of 0.070in. Wall and fittings for Radiant Heating Systems up to 75psig (Only Section 6.4)

ASTM F3253	Standard Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems (Only Section 6.1.4)
ASTM D1603	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter (Only Section 4.1.2)
ASTM F876	Standard Specification for Crosslinked Polyethylene (PEX) Tubing (Only Section 6.3)
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 C901	Polyethylene (PE) Pressure Pipe and Tubing, ½" through 3", for Water Service (Only Section 4.2.1.3 and 4.3.8)
AWWA C904	Cross-Linked Polyethylene (PEX) Pressure Pipes, ½ In. (12 mm) Through 3 In. (76 mm) for Water Service (Only Section 4.3.3)
AWWA C906	Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100 mm) Through 63 In. (1,600 mm), for Water Distribution and Transmission (Only Sections 4.3.9, 4.3.11, 4.3.12, 4.3.13 and 4.3.16)
CISPI 310	Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications – Except for: ASTM C564 – Ozone test to ASTM D1149
CSA B125.3	Plumbing fittings
CSA B137.1	Polyethylene (PE) pipe, tubing, and fittings for cold-water pressure services (Only Section 4.2.5)
CSA B45.10	Hydromassage bathtubs
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	Non-recirculating toilets and waste holding tanks for use in recreational vehicles
CSA B481.1	Testing and rating of grease interceptors using lard
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 Z240.3.2	Plumbing requirements for recreational vehicles
IAPMO IGC 188	Push Fit Fittings Excluding section 5.2
IAPMO IGC-157	Ball Valves
IAPMO PS-65	Airgap Units for Water Conditioning Equipment Installation
IAPMO Z1001	Prefabricated Gravity Grease Interceptor
IAPMO Z1157	Ball Valves
IAPMO/ANSI Z1000	Prefabricated Septic Tanks
WRAS1111.1	Closure Sections: <ul style="list-style-type: none"> <li>• B DRAW OFF TAPS AND ABOVE GROUND STOP VALVES, (Derived from BS 1010, Part 2, Clause 1.7)</li> <li>• H DRAW-OFF TAPS WITH METAL AND PLASTIC BODIES, (Derived from BS 5412, Clause 8.2.2)</li> </ul> L OTHER TYPES OF VALVES/ FITTINGS

WRAS1111.5	Leak tightness test Sections: A AUTOMATIC DIVERTER HC (Derived from BS EN 1111: 1998. Clause 9.6)
WRAS1111.7	Closure-Diverter
WRAS1112.1	Porosity Sections: <ul style="list-style-type: none"> <li>J DRAW-OFF TAPS WITH METAL BODIES &amp; DRAW-OFF TAPS WITH PLASTIC BODIES (DERIVED FROM BS 5412/13, PART 2, CLAUSE 9,11)</li> </ul> N ALL OTHER TYPES OF VALVES/FITTINGS NOT REFERRED TO IN THE FOREGOING TO BE ASSESSED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE: FITTING(S) DESIGNED TO BE INSTALLED BELOW GROUND OR IN ANY OTHER POSITION TO WHICH ACCESS IS DIFFICULT
WRAS1113.1	Joint effectiveness Sections: <ul style="list-style-type: none"> <li>B DRAW OFF TAPS AND ABOVE GROUND STOPVALVES (Derived from BS 1010, Part 2, Clause 1.7.2)</li> <li>D DRAW-OFF TAPS WITH METAL BODIES&amp; DRAW-OFF TAPS WITH PLASTIC BODIES (Derived from BS 5412)</li> </ul> F ALL OTHER TYPES OF VALVES/FITTINGS NOT REFERRED TO IN THE FOREGOING TO BE ASSESSED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE
WRAS1211.2	Endurance
WRAS1211.3	Endurance
WRAS1211.5	Endurance Test
WRAS1211.7	Endurance (Derived from EN 816)
WRAS1315.1	Torque-Operating Mechanism
WRAS1315.4	Torque-Backnuts
WRAS1412.1	Corrosion Protection
WRAS1511.5	Flow Rate (Derived from BS 5388)
WRAS1611.11	Visual Inspection-Means of Renewing Seat and Washer, or Seal and Washer
WRAS1611.8	Visual Inspection – Seal to be Readily Renewable
WRAS2211.3	Contamination-Mixing of Primary and Secondary
WRAS2212.6	Vacuum Test (Derived from BS 5412: 1996. Clause 13)
WRAS2213.18	Dimensional
WRAS2213.19	Dimensional
WRAS5011.1	Measurement of Linear Dimensions
WRAS6001.1	Marking for Identification Sections: <ul style="list-style-type: none"> <li>A ALL FITTINGS</li> <li>B BRASS FITTINGS</li> </ul>

## **MACHINERY**

### **Transportation, Agricultural and Construction Vehicles and Components:**

#### **Automobiles, Light Trucks, Vans & Trailers**

ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
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ASTM G155	Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials
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## ELASTOMERS AND PROTECTIVE AND OTHER COATINGS

### Paints; Varnishes; Inks; Coatings; and Allied Products:

#### (Automotive Coatings)

ASTM D3359	Standard Test Methods for Measuring Adhesion by Tape Test
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### Plastics; Resins and Rubber:

#### (Plastics)

ASTM 1252/NSF 8182	Standard Practice for general Techniques for Obtaining Infrared Spectra for Qualitative Analysis/FT-IR Test for Lubricants
ASTM D256	Standard Test Method for determining the Izod Pendulum Impact Resistance of Plastics (only for Method A)
ASTM D638	Test Method for Tensile Properties of Plastics

## ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

### (Conduit and Sprinkler Systems)

UL 1821	Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Except for: Section 13 Large Fire Test
UL 651	Standard for Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings Except for:
UL 651A	Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit
ULC/ORD C1285	Piping and Couplings, Polyvinyl Chloride (PVC) for Underground Fire Service
ULC/ORD-C199P	Combustible Piping for Sprinkler Systems Except for: Light and water test, Vibration test Section 13 Large Fire Test

### (Electrical Appliances)

CSA C22.2 No.64	Household cooking and liquid
CSA C22.2 No. 68	Motor-operated Appliances (household and commercial)
CSA C22.2 No.108	Liquid Pumps
CSA C22.2 No.109	Commercial cooking appliances
CSA C22.2 No.120	Refrigeration Equipment
CSA C22.2 No.195	Motor operated food processing appliances (household and commercial)
CSA C22.2 No.218.1	Spas, hot tubs, and associated equipments
CSA C22.2 No.218.2	Hydromassage Bathtub Appliances
CSA C22.2 No.287	Plumbing Fittings Incorporating Electrical and/or Electronic Features

CAN/CSA/IEC/NMX/UL 60335-1	Safety Of Household And Similar Appliances - Part 1: General Requirements
CAN/CSA/IEC/ISA/UL 61010-1	Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use - Part 1: General Requirements

**(Energy Efficiency Verification (EEV))**

AHRI 1200	Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets
ASHRAE 32.1 sections 1 to 7.2	Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages (Ice Machines)
ASHRAE 72	Method of Testing Commercial Refrigerators and Freezers

**(Energy Star)**

10 CFR 430 Subpart B, Appendix B1	Uniform Test Method for Measuring the Energy Consumption of Freezers
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
10 CFR 431 Subpart Y	Energy Efficiency Program for Certain Commercial and Industrial Equipment Pumps
AHAM HRF-1	Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers
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
ASTM F2861	Standard Test Method for Enhanced Performance of Combination Oven in Various Modes
Energy Star	Program Requirements and Criteria for Residential Dishwashers
Energy Star	Program Requirements and Criteria for Commercial Dishwashers
Energy Star	Program Requirements for Bottled Water Coolers
Energy Star	Program Requirements Residential Pool Pumps

Energy Star	Program Requirements for Commercial Ovens
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**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

**Occupational Health and Safety:**

NSF 49	Class II (Laminar Flow) Biosafety Cabinetry
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**Water (Radiochemistry)**

EPA 00-02	Gross Alpha in Drinking Water by Coprecipitation
EPA 900.0	Radioactivity, Gross Alpha and Gross Beta
SM 7500Ra-B/ NSF SOP 11808	Radium-226 by SM7500Ra-B
SM 7500Ra-D/ NSF SOP 11809	Radium-228 by SM7500Ra-D
SM 7500RN-B	Radon, Liquid Scintillation Method

**Other:**

**(Public Health and Safety)**

NSF SOP 2956	Analysis of Bisphenol A and Bisphenol A Adducts by Reverse Phase HPLC or UPLC (in water and food simulants)
NSF SOP 9063	Procedure for using the Innov-X XRF Spectrophotometer for Analyzing Lead Content in Products per NSF/ANSI 372 Drinking Water Systems Components – Lead Content
EPA 110.2 / SM2120-B	Color (NSF SOP 2852)
EPA 120.1 / SM 2510B /	Specific Conductance (NSF SOP 2855)
EPA 140.1	Threshold Odor Number (NSF SOP 2838)
EPA 1613 B	Analysis of Dioxins/Furans by HRGC/HRMS in Bottled Water and Exposure Water by EPA Method 1613B (NSF SOP 3121)
EPA 180.1	Nephelometric Determination of Turbidity (NSF SOP 3564)
EPA 200.7	Determination of Trace Elements by ICP-AES (For the following analytes: Iron, Calcium, Magnesium, Potassium, Sodium and Calcium Hardness) / NSF SOP 3083
EPA 200.8	Determination of Trace Elements by ICPMS (NSF SOP 2950)
EPA 218.7	Determination of Hexavalent Chromium in Drinking Water by Ion Chromatography with Post-Column Derivatization and UV-Vis Spectroscopic Detection
EPA 300.0	Determination of Inorganic Anions in Water using Ion Chromatography by EPA 300.0 (NSF SOP 2946)
EPA 300.1	Determination of Inorganic Disinfection By-Products by Ion Chromatography by EPA Method 300.1 (NSF SOP 2963)

EPA 314	Determination of Perchlorate in Water by Ion Chromatography / NSF SOP 3056
EPA 335.4	Lachat – Determination of Distillation Cyanide / NSF SOP 3102
EPA 504.1	Determination of EDB and DBCP in Bottled Water Based on EPA Method 504.1 using Microextraction and GC/ECD/ NSF SOP 3559
NSF SOP 10250 (modified EPA 505)	Determination of Organohalide Pesticides and Polychlorinated Biphenyls (PCBs) in Drinking Water based on EPA Method 505 using Micro-extraction and GC/ECD
EPA 508.1	Analysis of Toxaphene, Chlordane and Polychlorinated Biphenyls (PCBs) in Drinking and Bottled Water based on EPA Method 508.1 using GC/ECD; NSF SOP 8352
EPA 515.4	Determination of Chlorinated Acids in Water by Gas Chromatography with an Electron Capture Detector SOP # 20175 extraction, NSF SOP# 20176
NSF SOP 29064 (modified EPA Method 521)	Analysis of Nitrosamines in Water Based on a Modified EPA Method 521 Using GC-MS/MS. SOP 12571 - Extraction of Nitrosamines in Water
EPA 524.2	Volatile Organic Compounds in Water by GC/MS / NSF SOP 3004
EPA 525.2	SOP 2914 - Analysis of Semi-Volatile Organic Compounds In Drinking Water and Exposure Water By GC/MS (EPA 525.2). NSF SOP 2943 - Solid Phase Extraction of Semi-Volatile Organic Compounds in Drinking and Exposure Water Based on EPA Method 525.2
EPA 531.2	Measurement of of N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Post Column Derivatization by EPA Method 531.2; NSF SOP 3150
EPA 547.0	Determination of Glyphosate in Drinking Water by HPLC, Post-Column Derivatization, and Fluorescence Detection by EPA 547 NSF SOP 2920
EPA 548.1	Extraction and Determination of Endothall in Water Based on EPA Method 548.1 Using GC/FID NSF SOP #2924, Extraction NSF SOP#2921
EPA 549.2	Determination of Diquat in Drinking Water by Liquid/Solid extraction and HPLC with UV Detection by EPA 549.2; NSF SOP #2923, extraction NSF SOP #2922
EPA 552.2	Extraction and Analysis of Halogenated Acetic Acids in Water by EPA Method 552.2; NSF SOP #3148 extraction NSF SOP#2995
EPA 555	Analysis of Acid Herbicides using HPLC, UV Detection by EPA 555; NSF SOP 3129
EPA 625.0	Analysis of Base, Neutral, and Acid Compounds by Modified EPA Method 625.extraction SOP# 2895/ NSF SOP 3130
SM 2320B	Bicarbonate
SM 2320B	Automated Titrimetric Determination of Alkalinity/ NSF SOP 2929
SM 2330B	Corrosivity - Corrosivity of Water as a Calcium Carbonate Saturation Index Calculation (NSF SOP 29382)

SM 2540C	Determination of Total Dissolved/Volatile Dissolved Solids/ NSF SOP 3000
SM 4500CL02-D / SM 4500CL-G	Determination of Chlorine Dioxide and Chloramines/ NSF SOP 3153
SM 4500CL-G	Determination of Total Residual Chlorine (NSF SOP 3153)
SM 4500FC	Ion-Selective Electrode Method for Determination of Fluoride (NSF SOP 2903)
SM 4500H+B	Electrometric Determination of pH (NSF SOP 2944)
SM 5310C	Determination of Total Organic Carbon in Water and Wastewater/ NSF SOP 3556
SM 5540-C	Methylene Blue Active Substances/ NSF SOP 2865
SW-846 Test Method 8270D	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
SW-846 Test Method 8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

### Water Quality:

#### (Drinking Waters)

NSF SOP 13481	Analysis of Pharmaceutical Compounds in NSF GTW Water by LC/MS/MS Electrospray Negative Ionization Mode
NSF SOP 13627	Analysis of Pharmaceutical Compounds in NSF GTW Water by LC/MS/MS in Electrospray Positive Ionization Mode
ANSI/NSF 372	Drinking Water System Components Lead Content
ANSI/NSF 401	Drinking Water Treatment Units – Emerging Compounds/Incidental Contaminants
ANSI/NSF 419	Public Drinking Water Equipment Performance - Filtration
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
NSF P231	Microbiological Water Purifiers
NSF P248	Military Operations Microbiological Water Purifiers

US FDA, Title 21, 165.110	Requirements for Specific Standardized Beverages (Bottled Water)
WQA ORD1901	Harmonized Product Requirements for Drinking Water Treatment Units that make Manganese Performance Claims

**Recycled Waters**

ANSI/NSF 46	Evaluation of Components and Devices Used in the Wastewater Treatment Systems
NSF/ANSI 40	Residential Wastewater Treatment Systems
NSF/ANSI 41	Non-liquid Saturated Treatment Systems

**MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS**

**Other:**

**(Food Equipment)**

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 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	Mobile 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
ANSI/NSF 51	Food Equipment Materials

**(Water Systems – Recreation)**

ANSI/NSF 50	Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities
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ASTM F2208	Standard Safety Specification for Residential Pool Alarms
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**(Microbiological Testing)**

NSF SOP 10169	Cytotoxic Activity (AS/NZS 4020 - Appendix F)
NSF SOP 3601	Biosafety Cabinetry (NSF/ANSI 49)
NSF SOP 3606	Bacteriostatic Test (NSF/ANSI 42)
NSF SOP 3629	Heterotrophic Plate Count (modified SM 9215B, 20 <sup>th</sup> edition)
NSF SOP 3635	Heat Treatment Dispensing Freezer (NSF/ANSI 6)
NSF SOP 3636	In Place Cleaning Test (NSF/ANSI 2/4/12/18)
NSF SOP 3638	Ultraviolet Water Treatment Systems (NSF/ANSI 55)
NSF SOP 3645	Disinfection Efficacy of Recreational Water Equipment (NSF/ANSI 50)
NSF SOP 3648	Chlorine (Available) in Disinfectants Germicidal Equivalent Concentration (AOAC Official Method 955.16)
NSF SOP 3659	Mutagenic Activity (AS/NZS 4020 - Appendix G)
NSF SOP 3703	MS2, FR and PHI X174 Coliphages
NSF SOP 3706	Microspheres (NSF/ANSI 53)
NSF SOP 3707	<i>Cryptosporidium</i> Oocysts (NSF 53)
NSF SOP 6328	Total Coliforms and <i>E. coli</i> by Colilert (SM 9223, 20 <sup>th</sup> edition)
NSF SOP 6367	Gluten by ELISA
NSF SOP 6798	Resistance to Microorganisms (NSF/ANSI 52) Except for: <i>Aspergillus niger</i>
NSF SOP 8566	<i>Cryptosporidium</i> Infectivity
NSF SOP 9934	<i>Raoultella terrigena</i> by Membrane Filtration
NSF SOP 20650	Total Aerobic Microbial Count-Test (modified USP 2021)
NSF SOP 20652	Total Combined Molds and Yeast-Test (modified USP 2021)
NSF SOP 20654	Enterobacterial Count-Test (modified USP 2021)
NSF SOP 20655	Salmonella species (modified USP 2022)
NSF SOP 20656	<i>Escherichia coli</i> (modified USP 2022)
NSF SOP 20657	<i>Staphylococcus aureus</i> (modified USP 2022)
NSF SOP 20658	<i>Pseudomonas aeruginosa</i> (modified USP 62)

Number of scope listings: 319

Number of TMDNRT techniques: 4

**Notes:**

**ISO/IEC 17025:2017:** General Requirements for the Competence of Testing and Calibration Laboratories

**RG-TMDNRT:** SCC Requirements and Guidance for Accreditation of Laboratories Engaged in Test Method Development and Non-Routine Testing

ABNT: Brazilian National Standards Organization  
 AHAM: Association of Home Appliance Manufacturers  
 AHRI: Air-conditioning, Heating, and Refrigeration Institute  
 ANSI: American National Standards Institute  
 AOAC: Association of Official Analytical Chemists Methods

APSP: Association of Pool and Spa Professionals  
AS: Standards Australia  
ATS: Australian Technical Standard  
ASME: American Society of Mechanical Engineers  
ASTM: American Society for Testing Materials  
AWS: American Welding Society  
AWWA: American Water Works Association  
CISPI: Cast Iron Soil Pipe Institute  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DIN: German Institute for Standardization (Deutsches Institut für Normung)  
EPA: Environmental Protection Agency  
IAPMO: International Association of Plumbing and Mechanical Officials  
NEMA: National Electrical Manufacturers Institute  
NZS: Standards New Zealand  
SM: Standard Methods of American Water Works Association (AWWA)  
UL: Underwriter's Laboratories  
ULC: Underwriter's Laboratories of Canada  
USP: United States Pharmacopeia  
US FDA: United States Food and Drug Administration  
USEPA: U.S. Environmental Protection Agency  
WRAS: Water regulatory Advisory Scheme Test Code Sheets

NSF SOP: Administration of Electronic Standard Operating Procedures (In-House NSF Methods)

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

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