



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CANADA INC.
2712-37 Ave NE Calgary
Alberta, Canada T1Y 5L3
Bonnie Garbutt Phone: 403-291-2022
Email: bonnie.garbutt@element.com

BIOLOGICAL

Valid To: January 31, 2028

Certificate Number: 6206.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following biological tests identified on foods, food products, beverages, feeds, environmental samples, pet foods, water, and soil/compost:

Food Quantitative

<u>Test/Technology</u>	<u>Test Method</u>	<u>Reference Method</u>
Aerobic Plate Count – Pour Plate and Spread Plate	TM MICR 086-50	MFHPB-18 (modified)
<i>Clostridium perfringens</i> – Pour Plate and Spread Plate	TM MICR 114-50	MFHPB-23
Coliforms, Fecal Coliforms, and <i>Escherichia coli</i> – MPN	TM MICR 070-50	MFHPB-19 (modified)
<i>E. coli</i> and Coliforms – Petrifilm	TM MICR 084-50	MFHPB-34
Enterobacteriaceae – Petrifilm	TM MICR 103-50	MFLP-09
<i>Listeria monocytogenes</i> – Spread Plate	TM MICR 090-50	MFLP-74
Rapid Yeasts and Molds – Petrifilm	TM MICR 207-50	AOAC 2014.05
<i>Staphylococcus aureus</i> – Petrifilm	TM MICR 209-50	MFLP-21
<i>S. aureus</i> – Spread Plate	TM MICR 091-50	MFHPB-21
Total Aerobic Bacteria – Petrifilm	TM MICR 075-50	MFHPB-33
Yeasts and Molds – Pour Plate and Spread Plate	TM MICR 076-50	MFHPB-22 (modified)

Food Qualitative

<u>Test/Technology</u>	<u>Test Method</u>	<u>Reference Method (s)</u>
<i>Campylobacter jejuni/coli/lari</i> – Cultural Confirmation	TM MICR 204-50	USDA MLG-41 (modified)
<i>E. coli</i> O157:H7 – PCR Screen	TM MICR 133-50	MFLP-30
<i>E. coli</i> O157:H7/NM – Cultural Confirmation	TM MICR 073-50	MFHPB-10 (except for verotoxin confirmation noted in section 6)
<i>L. monocytogenes</i> and other <i>Listeria</i> spp. – Cultural Confirmation	TM MICR 089-50	MFHPB-30
<i>Listeria</i> – PCR Screen	TM MICR 140-50	MFLP-15
<i>L. monocytogenes</i> – PCR Screen	TM MICR 135-50	MFLP-28
<i>Salmonella</i> – PCR Screen	TM MICR 134-50	MFLP-29
<i>Salmonella</i> – Cultural Confirmation	TM MICR 124-50	USDA MLG-4 MFHPB-20

Food Chemistry

<u>Analyte</u>	<u>Test Method</u>	<u>Reference Method</u>
Ash in Food	TM FOOD 001-50	AOAC 923.03 (modified)
Bone Particle Size of Meat Samples	TM FOOD 002-50	CFIA FLS-1971-001 (modified)
Gluten Allergen – Enzyme Linked Immunosorbent Assay (ELISA)	TM FOOD 007-50	AOAC RI 061201
Moisture	TM FOOD 003-50	AOAC 950.46 (modified)
pH	TM FOOD 004-50	AOAC Official Method 981.12
Total Fat	TM FOOD 005-50	AOCS Am 5-04 (modified)
Water Activity	TM MICR 201-50	MFLP-66

Water

<u>Test/Technology</u>	<u>Test Method</u>	<u>Reference Method(s)</u>
Aerobic (Anaerobic) – Plate Count	TM MICR 086-50	SMEWW 9215 B (modified)
Coliforms and <i>E. coli</i> – Enzyme Substrate	TM MICR 068-50	SMEWW 9223 B
Coliforms, Fecal Coliforms, and <i>E. coli</i> – Membrane Filtration	TM MICR 092-50	SMEWW 9222 B, D, I
Coliforms, Fecal Coliforms, and <i>E. coli</i> – MPN	TM MICR 070-50	SMEWW 9221 B, E, F (modified)
Fecal Coliforms – Enzyme Substrate	TM MICR 068-50	SMEWW 9223 B (modified)
Iron Related Bacteria – BART Method	TM MICR 095-50	SMEWW 9240 D (IRB-BART - Droycon Bioconcepts Inc.)
Microcystins – Enzyme Linked Immunosorbent Assay (ELISA)	TM ELI 001-50	Envirologix QuantiPlate Kit for Microcystins
<i>Pseudomonas aeruginosa</i> – Membrane Filtration	TM MICR 100-50	SMEWW 9213 E
Sulphate Reducing Bacteria Test – BART Method	TM MICR 203-50	SMEWW 9240 D (SRB – BART – Droycon Bioconcepts Inc.)

Soil

<u>Test/Technology</u>	<u>Test Method</u>	<u>Reference Method(s)</u>
Coliforms, Fecal Coliforms and <i>E. coli</i> – MPN	TM MICR 070-50	SMEWW 9221 B, E, F (modified)

Key:

AOAC	Association of Official Analytical Collaboration
MFHPB	Health Canada Microbiology Food Health Protection Branch
MFLP	Health Canada Microbiology Food Laboratory Procedure
SMEWW	American Public Health Association – Standard Methods for the Examination of Water and Wastewater
USDA MLG	United States Department of Agriculture Microbiology Laboratory Guidebook



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Calgary, Alberta, CANADA

for technical competence in the field of

Biological Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 2nd day of December 2025.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6206.05
Valid to January 31, 2028

For the tests to which this accreditation applies, please refer to the laboratory's Biological Scope of Accreditation.