



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GALBRAITH LABORATORIES, INC.
2323 Sycamore Drive
Knoxville, TN 37921-1700
Lee Bates Phone: 865-546-1335, x1829

CHEMICAL

Valid To: July 31, 2017

Certificate Number: 2777.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests¹:

Metals Analysis:

Test Name	Test Number
Determination of Mercury by Automated Cold Vapor Atomic Absorption	E80-3
Inductively Coupled Plasma – Atomic Emission Spectrometry	EPA SW-846 Method 6010B
Inductively Coupled Plasma – Mass Spectrometry	EPA SW-846 Method 6020
Standard Test Method for Elements in Digestates by Inductively Coupled Plasma Mass Spectroscopy	ME-30
Inductively Coupled Plasma Atomic Emission Spectrometry	ME-70
Atomic Absorption Spectrometry	ME-71
Semi-Quantitative Metals Screen by Mass Spectrometry	ME-31
Elemental Impurities – Limits	USP <232>
Elemental Impurities – Procedures	USP <233>

Chromatographic Analysis:

Test Name	Test Number
Residual Solvents by Headspace Gas Chromatography	GC-100H
Analysis of Residual Solvents by Gas Chromatography using Direct Injection and Flame Ionization Detection	GC-100D
High Performance Liquid Chromatography (HPLC) Customer Analysis Method	LC-100

Chemical Analysis:

Test Name	Test Number
Determination of Total Halogens or Total Halides by Potentiometric Titration	E17-1
Determination of Nitrogen by the Kjeldahl Method	E7-1
Nitrogen by Ion-Selective Electrode	E7-6
Determination of Fluoride Ion by Ion-Selective Electrode	E9-1
Determination of Total Fluorine by Oxygen Flask Combustion and Ion-Selective Electrode	E9-3
Determination of Iodine by Ion-Selective Electrode	E53-4
Determination of Total Ash Content by Muffle Furnace	G-45A
Determination of Anions by Suppressed Ion Chromatography	ME-4A
Determination of Anions and Organic Acids by Suppressed Ion Chromatography	ME-4C
Loss on Drying	S-200
Determination of Water by Coulometric Titration (Karl Fischer)	S-300
Volumetric Karl Fischer Water Determination Using the Mettler DL35 Titrator	S-301
Determination of Water	USP <921>
Thermogravimetric Analysis/Differential Scanning Calorimetry	TGA-100

Combustion Analysis:

Test Name	Test Number
Sulfur Determinations Using the LECO SC-432DR	E16-2
Determination of Inorganic Carbon	E6-5
Total Organic Carbon	USP <643>
Total Organic Carbon	E6-8
Determination of Oxygen Content	E8-4
Determination of Total Organic Carbon	EPA Method 415.1
Carbon, Hydrogen and Nitrogen Determination using the LECO CHN 628	ME-15
Determination of Total Halogens and Total Halides by Microcoulometry	ME-13
Carbon, Hydrogen, and Nitrogen Determination using the PerkinElmer2400 Series II CHNS/O Analyzer	ME-14

Consumer Product Safety Testing:

Test Name	Test Number
16 CFR 1303, CPSC Standard Operating Procedure for Determining Lead (Pb) in Paint	G-52/ME70
16 CFR Part 1303, Standard Operating Procedure for Determining Total Lead in Children's Metal Products (Including Children's Metal Jewelry) 12/4/2008	CPSC-CH-E1001-08 G-52/ME-70
16 CFR Part 1303, Standard Operating Procedure for Determining Total Lead in Non-metal Children's Products	CPSC-CH-E1002-08 ME-70
16 CFR Part 1303, Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09 ME-70

¹ The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.

A handwritten signature in blue ink, appearing to read "J. C. Bunt".



Accredited Laboratory

A2LA has accredited

GALBRAITH LABORATORIES, INC.

Knoxville, TN

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 21st day of September 2015.

A handwritten signature in blue ink, appearing to read "J. C. Bunt".

Senior Director of Quality & Communications
For the Accreditation Council
Certificate Number 2777.01
Valid to July 31, 2017
Revised January 20, 2016

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