

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

${\tt MCKINNEY\ SPECIALTY\ LABS,\ LLC.}$

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CHEMICAL

Valid To: November 30, 2025 Certificate Number: 1873.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on tobacco, tobacco smoke, nicotine pouches, electronic cigarettes, and heated tobacco products:

Mainstream (MS) and Sidestream (SS) Smoke Analysis:

Test Description	Method	Test Procedure(s)
Aflatoxin B1 in Tobacco and MS Smoke by LC-MS/MS	AM-177	
Ammonia in MS (Cigar and cigarette) and SS (Cigarette) Smoke, HTP and ENDS Aerosol, E-Liquid and Tobacco by Ion Chromatography with Suppressed Conductivity Detection	AM-281	CRM No. 83, HC T-101, HC T-201
Benzo(a)pyrene (MS) by HPLC	AM-207	HC T-103
Caffeic Acid in MS Smoke and Tobacco by LC-MS/MS	AM-069	
Carbon Monoxide (MS/SS) by NDIR	AM-007	HC T-115, HC T-214, FR11178, FR46483, ISO 8454, CRM No. 68
Carbonyls (MS) by UHPLC with UV Detection Acetaldehyde Acetone Acrolein Butryaldehyde Crotonaldehyde Formaldehyde Methylethylketone Propionaldehyde	AM-254	CRM No. 74, HC T-104
Carbonyls (MS Cigars) by UPLC Acetaldehyde Acetone Acrolein Butryaldehyde Crotonaldehyde Formaldehyde Methylethylketone Propionaldehyde	AM-076	

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Test Description	Method	Test Procedure(s)
Carbonyls (SS) by UHPLC with UV detection. Acetaldehyde Acetone Acrolein Butryaldehyde Crotonaldehyde Formaldehyde Methylethylketone Propionaldehyde	AM-005	HC T-204
Ethyl Carbamate by GC/MS	AM-175	
Filter Efficiency (MS Nicotine) by GC	AM-026	CRM No. 9, T-106
Glycidol in ENDS E-Liquid, Aerosol, and MS Smoke by GC-MS	AM-274	
Humectants (MS) by GC-FID Diethylene Glycol (DEG) Ethylene Glycol (EG) Glycerol Propylene Glycol Triethylene Glycol (TEG)	AM-090	
Hydrogen Cyanide (MS/SS) by CFA	AM-111	HC T-107, HC T-205
Mercury (MS) by CVAA	AM-036	HC T-108
Mercury (SS) by CVAA	AM-041	HC T-206
Metals (MS) by ICP-MS Arsenic Beryllium Cadmium Chromium Cobalt Lead Nickel Palladium Selenium Tin	AM-021	HC T-109
Metals (SS) by ICP-MS Arsenic Cadmium Chromium Lead Nickel Selenium	AM-043	HC T-207

Test Description	Method	Test Procedure(s)
Nicotine, Water, and Menthol (MS) by GC	AM-001	HC T-115, FR11178, FR46483, ISO 10315, ISO 10362-1, ISO 4387, CRM No. 65, No. 66, No. 67
Nicotine in Aqueous Media and Saliva by GC/MS	AM-228	
Nitric Oxide in MS Smoke and HTP Aerosol by Chemiluminescence	AM-216	HC T-110
Nitric Oxide (SS) by Chemiluminescence	AM-217	HC T-208
pH (MS) by pH Meter	AM-237	
pH (MS) by pH Meter	AM-093	HC T-113
Phenolics (MS) by HPLC Catechol Hydroquinone m-Cresol o-Cresol p-Cresol Phenol Resorcinol	AM-027	HC T-114, CRM No. 78
Phenolics (SS) by HPLC Catechol Hydroquinone m-Cresol o-Cresol p-Cresol Phenol Resorcinol	AM-048	HC T-211
Polycyclic Aromatic Hydrocarbons (MS/SS) by GC/MS MS Cigar Smoke Benzo[a]pyrene (BaP) MS Cigarette Smoke Anthracene, Benz[a]anthracene (BaA) Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Chrysene, Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene (IcdP) Naphthalene Phenanthrene Pyrene SS Cigarette Smoke Benz[a]anthracene (BaA) Benzo[a]pyrene (BaP)	AM-044	HC T-203B
Primary Aromatic Amines (MS) by GC/MS 1-Aminonaphthalene (1-naphthylamine) 2,6-Dimethylaniline 2-Aminonaphthalene (2-naphthylamine) 3-Aminobiphenyl 4-Aminobiphenyl o-Anisidine (2-methoxyaniline) o-Toluidine (2-methylaniline)	AM-199	

Test Description	Method	Test Procedure(s)
Primary Aromatic Amines (MS/SS) by GC/MS	AM-030	HC T-102, HC T-202
1-Naphthylamine	1111 000	110 1 102,110 1 202
2-Naphthylamine		
3-Aminobiphenyl		
4-Aminobiphenyl		
Selected Alkaloids in Tobacco and MS Smoke by GC/MS	AM-100	
Anabasine	71111 100	
Nornicotine		
Semi-Volatiles (MS/SS) by GC/MS	AM-006	HC T-112, HC T-210
MS Smoke	7111-000	110 1-112, 110 1-210
3-vinylpyridine		
Pyridine		
Quinoline		
SS Smoke		
Pyridine		
Quinoline		
Tar and Nicotine (SS) by GC	AM-008	HC T-212
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Tobacco Specific N-Nitrosamines (MS) by LC-MS/MS	AM-020	HC T-111B, CRM No. 75, ISO 19290
4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone		
(NNK)		
N-Nitrosoanabasine (NAB)		
N-Nitrosoanatabine (NAT)		
	AM-211	HC T-209B
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N-Nitrosonornicotine (NNN)		
Volatile Organics (MS/SS) by GC/MS	AM-015	HC T-116, HC T-213, CRM No. 70
1,3-Butadiene		
Acrylonitrile		
Benzene		
Isoprene		
Styrene		
Toluene		
Volatile Organics I in MS Smoke and Tobacco Products by	AM-180	
GC/MS		
1,3-Butadiene		
Ethylene Oxide		
Isoprene		
1 • • • • • • • • • • • • • • • • • • •		
Vinyl Acetate		
Vinyl Chloride		
N-Nitrosonornicotine (NNN) Tobacco Specific N-Nitrosamines (SS) by LC-MS/MS 4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK) N-Nitrosoanabasine (NAB) N-Nitrosoanatabine (NAT) N-Nitrosonornicotine (NNN) Volatile Organics (MS/SS) by GC/MS 1,3-Butadiene Acrylonitrile Benzene Isoprene Styrene Toluene Volatile Organics I in MS Smoke and Tobacco Products by GC/MS 1,3-Butadiene Ethylene Oxide Isoprene Propylene Oxide Vinyl Acetate		HC T-209B HC T-116, HC T-213, CRM No. 70

Test Description	Method	Test Procedure(s)
Volatile Organics II in MS Smoke and Tobacco Products	AM-193	
by GC/MS		
2,3-Benzofuran		
2-Nitropropane		
Acrylonitrile		
Benzene		
Ethylbenzene		
Furan		
Naphthalene		
Nitrobenzene		
Nitromethane		
Styrene		
Toluene		
Phenolic compounds in mainstream smoke, HTP, aerosol,	AM-246	
and e-liquids by HPLC with fluorescence detection		
Catechol		
Hydroquinone		
m-Cresol		
o-Cresol		
p-Cresol		
Phenol		

<u>Tobacco, Tobacco Products, and/or Nicotine Products:</u>

Test Description	Method	Test Procedure(s)
Aflatoxin B1 in Tobacco and MS Smoke by LC-MS/MS	AM-177	
Anions by HPLC	AM-110	
Chloride (Cl ⁻)		
Nitrate (NO ₃ -)		
Nitrite (NO ₂ -)		
Phosphate (PO ₄ ³⁻)		
Benzo(a)pyrene by UPLC	AM-125	HC T-307
Caffeic Acid in MS Smoke and Tobacco by LC-MS/MS	AM-069	

Test Description	Method	Test Procedure(s)
Carbonyls in Tobacco and Tobacco-Free Nicotine Pouches	AM-240	CRM No. 86
by UPLC-MS/MS		
Cigarette Filler		
Acetaldehyde		
Acetone		
Acrolein		
Crotonaldehyde		
Formaldehyde		
Methyl Ethyl Ketone		
Propionaldehyde		
Hookah		
Acetaldehyde		
Acetone		
Acrolein		
Crotonaldehyde		
Formaldehyde		
Methyl Ethyl Ketone		
Smokeless Tobacco		
Acetaldehyde		
Acetone		
Acrolein		
Crotonaldehyde		
Formaldehyde		
Tobacco-Free Nicotine Pouches		
Acetaldehyde		
Acrolein		
Crotonaldehyde		
Formaldehyde		
Ethyl Carbamate (Urethane) by GC/MS	AM-174	
Humectants by GC-FID	AM-090	HC T-304
Diethylene Glycol (DEG,		
Ethylene Glycol (EG)		
Glycerol		
Propylene Glycol		
Triethylene Glycol (TEG)		
Karl Fischer Titration for the Analysis of Water in E-	AM-285	
Cigarette Liquids, Aerosol, and Tobacco-Free Pouches		
Menthol by GC-FID	AM-070	
Mercury in Tobacco Products and E-Liquids by CVAA	AM-095	HC T-306

Test Description	Method	Test Procedure(s)
Metals in Tobacco Products, Filler, Hookah Smoke, Tobacco-Free Nicotine Pouches and Human Saliva by ICP/MS Arsenic Beryllium Cadmium Chromium Cobalt Lead Nickel Selenium	AM-052	HC T-306
Methyl Salicylate (Wintergreen) and Ethyl Salicylate by GC/MS	AM-078	
Moisture and pH for Smokeless Tobacco Products and Tobacco Free Nicotine Pouches	AM-071	FR Volume 74, No. 4 AOAC 966.02 (Modified)
N-Nitrosodiethanolamine by GC-TEA	AM-172	
Nicotine and Minor Alkaloids by GC/MS Anabasine Anatabine Myosmine Nicotine Nornicotine	AM-100	CRM No. 87
Nicotine and Minor Alkaloids by GC-NPD Anabasine Anatabine Myosmine Nicotine Nornicotine	AM-206	HC T-301
Nicotine in Dissolution Media by UPLC-UV	AM-219	
Nicotine in Filler, Smokeless Tobacco Products, and Tobacco-Free Nicotine Pouches by GC-FID	AM-072	FR Volume 74, No. 4 CRM No. 62
Nicotine Degradants In Nicotine Pouches and Smokeless Tobacco By LC-MS/MS Anabasine Anatabine Cotinine Myosmine Nicotine-N-oxide Nornicotine β-nicotyrine	AM-288	/
Nitrate in Tobacco and Nicotine Pouches by CFA	AM-218	HC T-308
Nitrite by CFA	AM-182	
PAAs in Smokeless Tobacco, Filler, and Nicotine Pouches By GC-MS	AM-252	
pH by pH Meter	AM-053	HC T-310

Test Description	Method	Test Procedure(s)
Polycyclic Aromatic Hydrocarbons in Tobacco and	AM-248	
Tobacco Products by GC/MS		
Benz[j]aceanthrylene/benz[e]aceanthrylene*		
Benzo[a]anthracene		
Benzo[a]pyrene		
Benzo[b]fluoranthene		
Benzo[c]fluorene,		
Benzo[c]phenanthrene		
Benzo[g,h,i]perylene		
Benzo[j]fluoranthene		
Benzo[k]fluoranthene		
Chrysene		
Cyclopenta[c,d]pyrene		
Dibenzo[a,e]pyrene		
Dibenzo[a,h]anthracene		
Dibenzo[a,h]pyrene		
Dibenzo[a,i]pyrene		
Dibenzo[a,l]pyrene		
Indeno[1,2,3-c,d]pyrene		
*these two analytes co-elute and are quantified		
together as the sum		
Quinoline by GC/MS	AM-243	
Reducing Sugars by CFA	AM-074	CRM No. 38
Sodium Propionate by GC-FID	AM-089	HC T-312
Sorbic Acid by HPLC	AM-098	HC T-313
Tobacco Specific N-Nitrosamines in Tobacco, Tobacco	AM-031	HC T-309 B, CRM No. 72
Products, Smoke Condensate, and Tobacco Free Nicotine		,
Products by LC-MS/MS		
Total Alkaloids by CFA	AM-114	ISO 15152
Nicotine		
Total Sugars by CFA	AM-073	CRM No. 38
Triacetin by GC/MS	AM-099	HC T-311
Volatile Organics I in MS Smoke and Tobacco Products by	AM-180	
GC/MS		
1,3-Butadiene		
Ethylene Oxide		
Isoprene		
Propylene Oxide		
Vinyl Acetate		
Vinyl Chloride		
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Test Description	Method	Test Procedure(s)
Volatile Organics II in MS Smoke and Tobacco Products	AM-193	
by GC/MS		
2,3-Benzofuran		
2-Nitropropane		
Acrylonitrile		
Benzene		
Ethylbenzene		
Furan		
Naphthalene		
Nitrobenzene		
Nitromethane		
Styrene		
Toluene		
Volatile Organics in Nicotine Pouches and Swedish-Style	AM-278	
Snus		
1,3-Butadiene		
Acrylonitrile		
Benzene		
Isoprene		
Styrene		
Toluene		
Water Activity in Smokeless Tobacco, E-Liquid, Tobacco-	AM-233	
Free Nicotine Pouches, and Hookah Tobacco		
Ammonia in smoke, HTP and ENDS Aerosol, E-Liquid	AM-281	HC T-302
and Tobacco by Ion Chromatography with Suppressed		
Conductivity Detection		

Electronic Cigarettes and Heated Tobacco Product Systems:

Test Description	Method	Test Procedure(s)
Amides in Electronic Nicotine Delivery Systems (ENDS) and	AM-245	
Heated Tobacco Products by GC/MS		
Acetamide		
Acrylamide		
Ethyl Carbamate		
Ammonia in MS (Cigar and cigarette) and SS (Cigarette)	AM-281	
Smoke, HTP and ENDS Aerosol, E-Liquid and Tobacco by		
Ion Chromatography with Suppressed Conductivity Detection		
Boiling Point of E-Liquid	AM-259	
Carbonyls in E-Cigarette Aerosol by HPLC-UV	AM-236	
2,3-Pentanedione		
Acetaldehyde		
Acetoin		
Acrolein		
Crotonaldehyde		
Diacetyl		
Formaldehyde		
Carbonyls in E-Liquid and Aerosol by LC-MS/MS	AM-244	
2,3-Pentandeione		100
Acetaldehyde		1

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Test Description	Method	Test Procedure(s)
Acetoin		
Acrolein		
Butyraldehyde (butanal)		
Carbonyls in E-Liquid and Aerosol by LC-MS/MS (cont.)		
Crotonaldehyde		
Diacetyl		
Formaldehyde		
Furfural		
Heptanedione		
Hexanedione		
Hydroxyacetone (acetol)		
Methyl Ethyl Ketone		
Carbonyls in Heated Tobacco Product Aerosol, Mainstream	AM-262	
Smoke, E-Liquid and Aerosol by LC-MS/MS		
HTP aerosol, MS cigarette smoke, e-liquids and aerosols:		
2,3-Butanedione (diacetyl)		
2,3-Pentanedione		
Acetaldehyde		
Acetoin		
Acetone		
Acrolein		
Butyraldehyde (butanal)		
Crotonaldehyde Formaldehyde		
Furfural		
Methyl Ethyl Ketone (2-butanone)		
Propionaldehyde (propanal)		
1 Topionaldenyde (propanar)		
HTP, ENDS aerosol, and e-liquid:		
Hydroxyacetone (acetol)		
Trydroxydectione (dector)		
Determination of Electrical Resistance of Cartomizer Heaters	AM-267	
Esters in ENDS Aerosol and E-Liquid by GC/MS	AM-275	
Primary Constituents, Menthol, DEG, EG, Water, and Ethanol	AM-224	
in Aerosol, E-liquid, and Condensate		
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E-cigarette aerosol, HTP aerosol, and e-liquid		
Nicotine		
Menthol		
Water		
Ethanol		
PG		
DEG		
EG		
VG		
ENDS, e-liquid, and e-cigarette aerosol		
6-methylnicotine		
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Test Description	Method	Test Procedure(s)
Glycidol in ENDS E-Liquid, Aerosol, and MS Smoke by GC-MS	AM-274	
Karl Fischer Titration for the Analysis of Water in E-Cigarette Liquids, Aerosol, and Tobacco-Free Pouches	AM-285	
Mercury in ENDS Aerosol by Cold Vapor Atomic Absorption (CVAA)	AM-251	
Mercury in HTP Aerosol by ICP-MS	AM-265	
Mercury in Tobacco Products and E-Liquids by CVAA	AM-095	
Metals in ENDS and HTP Aerosol by ICP-MS Arsenic Beryllium Metals in ENDS and HTP Aerosol by ICP-MS (cont.) Cadmium Chromium Cobalt Copper Iron Lead Nickel Selenium Silver Tin Zinc	AM-249	
N-Nitrosodiethanolamine by GC-TEA	AM-172	
Nicotine Degradants in E-Liquid and E-Cigarette Aerosol by LC/MS Anabasine Anatabine Cotinine Myosmine Nicotine-N-oxide Nornicotine \$\beta\$-nicotyrine	AM-238	
Nicotine, Menthol, Humectants and Contaminants in E- Cigarette Aerosol and E-Liquid by GC-FID	AM-201	CRM No. 84
NO/NOX in MS Smoke and HTP Aerosol by Chemiluminescence Detector	AM-216	
Non-Target Analytes in Aerosol and E-Liquid by GC-MS	AM-272	
Organic Acids in ENDS Aerosol and Liquid by GC-MS Formic acid Acetic acid Propionic acid Levulinic acid Benzoic acid Glycolic acid Lactic acid	AM-291	
Organic Acids in ENDS Aerosol and Liquid by IC	AM-282	
Acetic acid Benzoic acid		1
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Test Description	Method	Test Procedure(s)
Formic acid		
Glycolic acid		
Lactic acid		
Oxalic acid		
Propionic acid		
Particle Size Distribution of ENDS Aerosol using a MOUDI	AM-280	
Cascade Impactor		
pH in Smoke and E-Cigarette Aerosol	AM-237	
pH of E-Liquid	AM-232	
Polycyclic Aromatic Hydrocarbons in E-Liquid and Aerosol	AM-253	
by GC/MS		
5-Methylchrysene		
Benz[j]aceanthrylene/benz[e]aceanthrylene*		
Benzo[a]anthracene		
Benzo[a]pyrene		
Benzo[b]fluoranthene		
Benzo[c]fluorene		
Benzo[c]phenanthrene		
Benzo[g,h,i]perylene		
Benzo[j]fluoranthene		
Benzo[k]fluoranthene		
Chrysene		
Cyclopenta[c,d]pyrene		
Dibenzo[a,e]pyrene		
Dibenzo[a,h]anthracene		
Dibenzo[a,h]pyrene		
Dibenzo[a,i]pyrene		
Dibenzo[a,l]pyrene		
Indeno[1,2,3-c,d]pyrene		
*these two analytes co-elute and are quantified together as		
the sum		
Polycyclic Aromatic Hydrocarbons in HTP Aerosol by GC/MS		
Pyrene Penze [elenthresene		
Benzo[a]anthracene Benzo[a]pyrene		
Dibenzo[a,h]anthracene		
Dioenzo[a,n]anunacene		
Selected Metals in E-Liquid and Trapped Aerosol by ICP/MS	AM-235	
Aluminum		
Antimony		
Arsenic		
Beryllium		
Cadmium		
Chromium		
Cobalt		
Copper		
Iron, Lead		
Nickel		
Selenium		1
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Test Description	Method	Test Procedure(s)
Silver		
Tin		
Zinc		
Selected Primary Aromatic Amines (PAAs) in E-Cigarette	AM-221	
Aerosol and E-Liquid by GC/MS		
1-Aminonaphthalene		
2-Aminonaphthalene		
3-Aminobiphenyl		
4-Aminobiphenyl		
o-Toluidine		
Semi-Volatiles Organics in ENDS, HTP Aerosol, and E-	AM-257	
Liquid by GC-MS		
2,3-Benzofuran		
2-Nitropropane		
Ethylbenzene		
Naphthalene		
Nitrobenzene		
Pyridine		
Quinoline		
Styrene		
Tobacco-Specific <i>N</i> -Nitrosamines (TSNAs) in Aerosol and E-	AM-220	
Liquid by LC-MS/MS	71111 220	
4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone		
(NNK)		
Tobacco-Specific <i>N</i> -Nitrosamines (TSNAs) in Aerosol and E-		
Liquid by LC-MS/MS (cont.)		
N-Nitrosoanabasine (NAB)		
N-Nitrosoanatabine (NAT)		
N-Nitrosonornicotine (NNN)		
Triacetin by GC/MS	AM-099	
Viscosity of E-Liquid	AM-256	
Volatile Organic Compounds in ENDS Liquids and Aerosol	AM-283	
by GC/MS	AIVI-203	
1,3-butadiene		
2-Propen-1-ol		
Acrylonitrile		
Benzene		
Ethylene oxide		
Furan		
Furfurol		
Isoprene		
Nitromethane		
Propylene oxide		
Toluene Toluene		
Vinyl acetate		
Vinyl chloride		
Vinyi chioride Volatile Organic Compounds in ENDS Aerosol: Gas Phase	AM-284	
VOCs VOCs	AIVI-204	
1,3-butadiene		
Acrylonitrile		1
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Test Description	Method	Test Procedure(s)
Benzene		
Ethylene oxide		
Isoprene		
Propylene oxide		
Toluene		
Vinyl chloride		
Phenolic compounds in mainstream smoke, HTP, aerosol, and	AM-246	
e-liquids by HPLC with fluorescence detection		
Catechol		
Hydroquinone		
m-Cresol		
o-Cresol		
p-Cresol		
Phenol		
Resorcinol		

MECHANICAL

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>tobacco</u>, <u>tobacco</u> smoke, and <u>electronic cigarettes</u>:

Test Description	Method	Test Procedure(s)
Aerosol Collection	SOP EQU-100	CRM No. 81
Ignition Propensity	AM-050	ASTM E2187-04, ASTM E2187-09, ASTM E2187-20A, ISO 12863:2022
Physical Properties:	AM-009	
Circumference	AM-009	
Diameter	AM-009	ISO 2971
Length (Cigar, Cigarette, Tipping, Filter, Column, Vent)	AM-009	
Permeability	AM-009	ISO 2965
Pressure Drop	AM-009	ISO 6565
Tobacco Weight	AM-009	
Ventilation	AM-009	ISO 9512
Smoke Collection	SOP EQU-037	HC T-115, FR11178, FR45483, ISO 20778, ISO 3308, ISO 3402, ISO 4387, CRM No. 64

Key:

CRM = CORESTA Recommended Method

ENDS = Electronic Nicotine Delivery Systems

FR = Federal Register

HC = Health Canada

HTP = Heated Tobacco Products

ISO = International Standards Organization

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Accredited Laboratory

A2LA has accredited

MCKINNEY SPECIALTY LABS, LLC.

Richmond, VA

for technical competence in the field of

Chemical 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 22nd day of February 2024.

Mr. Trace McInturff, Vice President, Accreditation Services

For the Accreditation Council Certificate Number 1873.01

Valid to November 30, 2025

Revised October 28, 2024