



November 30, 2018

Laboratory ID: 100194

Nicholas Straccione
EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

Dear Mr. Straccione:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved EMSL Analytical, Inc. as an accredited Industrial Hygiene, Environmental Lead and Environmental Microbiology laboratory.

Accreditation documentation includes the IHLAP, ELLAP and EMLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with IHLAP, ELLAP and EMLAP requirements (*see Policy Modules 2B, 2C, 2D, and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP, ELLAP and EMLAP.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton
Managing Director

AIHA Laboratory Accreditation Programs, LLC
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AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|--|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: November 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: November 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: November 01, 2020 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
 200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**
 Issue Date: 11/30/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 02/01/1989

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>	
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1003 Modified		
			NIOSH 1005 Modified		
			NIOSH 1400 Modified		
			NIOSH 1500 Modified		
			NIOSH 1501 Modified		
			NIOSH 1550 Modified		
			NIOSH 1603 Modified		
			NIOSH 2000 Modified		
		GC/ECD	NIOSH 5502 Modified		
			NIOSH 5503 Modified		
	GC/MS		NIOSH 5510 Modified		
			OSHA 1010 Modified		
		GC/MS		EPA TO-15	
		Gas Chromatography (Diffusive Samplers)		NIOSH 1501 Modified	
	Ion Chromatography (IC)			NIOSH 6004 Modified	
				NIOSH 6011	
				NIOSH 7903	
OSHA ID-214					
Liquid Chromatography		HPLC/FL	OSHA ID-215 Modified		
		HPLC/UV	NIOSH 2016 Modified		
		LC/MS	NIOSH 5506 Modified		
			NIOSH 9111 Modified		



IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	
			OSHA ID-140 Modified	
		OSHA ID-145		
		NIOSH 7082		
	Inductively-Coupled Plasma	FAA	NIOSH 7105	
		GFAA	NIOSH 7300 Modified	
	X-ray Diffraction (XRD)	ICP/MS	NIOSH 7300 Modified	
		ICP/AES	NIOSH 7500 Modified	
UV/VIS (Colorimetric)		OSHA ID-142 Modified		
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		NIOSH 6010 Modified	
	Phase Contrast Microscopy (PCM)		EPA 600/R-93/116	
	Transmission Electron Microscopy (TEM)		NIOSH 7400	
			EPA AHERA - 40 CFR Part 763	EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method)
Miscellaneous Core	Gravimetric		NIOSH 7402	
			NIOSH 0500	
			NIOSH 0600	
	Thermo-optical Analysis (TOA)		NIOSH 5524	
Beryllium Testing	Inductively-Coupled Plasma	ICP/MS	NIOSH 5040	
			NIOSH 7300	
			NIOSH 7303	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

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The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description <i>(for internal methods only)</i>
Paint		EPA SW-846 3050B	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wipes		EPA SW-846 3050B	
		EPA SW-846 7000B	

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Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 09/01/2002

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Fungal	Air - Culturable	Micro-SOP-202	Detection and Enumeration of Culturable Fungi from Environmental Samples
	Bulk - Culturable	Micro-SOP-202	Detection and Enumeration of Culturable Fungi from Environmental Samples
	Surface - Culturable	Micro-SOP-202	Detection and Enumeration of Culturable Fungi from Environmental Samples
	Air - Direct Examination	Micro-SOP-201	Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Particulate from Surface Samples
	Bulk - Direct Examination	Micro-SOP-200	Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Particulate from Surface Samples
	Surface - Direct Examination	Micro-SOP-200	Standard Operating Procedure for the Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments, and Fibrous Particulate from Surface Samples
Bacterial	Air - Culturable	Micro-SOP-132	Detection and Enumeration of Culturable Bacteria from Environmental Samples
	Bulk - Culturable	Micro-SOP-132	Detection and Enumeration of Culturable Bacteria from Environmental Samples

Effective: 03/12/2013

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EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Bacterial	Surface - Culturable	Micro-SOP-132	Detection and Enumeration of Culturable Bacteria from Environmental Samples
	Legionella	05-TP-002	Recovery of Legionella from the Environment Using the Center for Disease Control and Prevention's Culture Method
		MICRO-SOP-105	ISO 11731:2017 and ISO 11731 Methods
Molecular	PCR – Bacteriodes	M095	Procedure for Rapid Identification of Total Bacteriodes by TaqMan Real-Time PCR
	PCR – Human Bacteriodes	M199	SOP for Rapid Identification of Human Bacteriodes by TaqMan Real-Time PCR
	qPCR – Legionella pneumophila	PCR-SOP-127	SOP for Identification and Quantification of Legionella Species, Legionella pneumophila and Legionella pneumophila Serogroup 1 by Real-Time Quantitative PCR (qPCR)
	qPCR – Mold Specific qPCR	PCR-SOP-202	SOP for Identification and Quantitation of Fungi by Real-Time Mold Specific Quantitative PCR (MSQPCR)

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