



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Sigma-Aldrich RTC, Inc.
2931 Soldier Springs Road
Laramie, WY 82070

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R.D.L.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 26 July 2024

Certificate Number: AT-1467



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Sigma Aldrich RTC, Inc.
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Laramie, WY 82070
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TESTING

Valid to: **July 26, 2024**

Certificate Number: **AT-1467**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Mass Spectrometry	Internal SOP - based on USP <736>, <1736> EP-2.2.43	Pharmaceutical Reference Materials	HPLC-MS/MS (Q-TOF), GC-MS/MS, HPLC-MS and GC-MS
Chromatography	Internal SOP - based on USP <621>, EP-2.2.28, EP-2.2.29	Pharmaceutical Reference Materials	HPLC GC
Identification	Internal SOP - based on USP <197>, USP <851> EP-2.2.24	Pharmaceutical Reference Materials	FTIR
Spectrophotometric Characterization	Internal SOP - based on USP <197>, USP <851> EP-2.2.25	Pharmaceutical Reference Materials	UV-Vis Spectrophotometer
Identification and Quantitation	Internal SOP - based on USP <761> EP-2.2.33	Pharmaceutical Reference Materials	NMR, QNMR
Specific Rotation	Internal SOP - based on USP <781> EP-2.2.7	Pharmaceutical Reference Materials	Polarimeter
Moisture	Internal SOP - based on USP <921> EP-2.5.12	Pharmaceutical Reference Materials	Karl Fisher Titrator
Direct, Residual, Complexometric, Redox	Internal SOP - based on USP <541> EP-2.2.20	Pharmaceutical Reference Materials	Titrator System Titration Manual

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Loss on Drying	Internal SOP - based on USP <731> EP-2.2.32	Pharmaceutical Reference Materials	Oven Vacuum Oven
Residue	Internal SOP - based on USP <281> EP-2.4.14	Pharmaceutical Reference Materials	Muffle Furnace Analytical Balance
Melting Range / Melting Point	Internal SOP - based on USP <741> EP-2.2.10	Pharmaceutical Reference Materials	Melting Point Apparatus
Refractive Index	Internal SOP - based on USP <831> EP-2.2.6	Pharmaceutical Reference Materials	Refractometer
Total Organic Carbon	Internal SOP - based on USP <643> EP-2.2.44	Pharmaceutical Reference Materials	TOC Analyzer
Boiling Point	Internal SOP - based on USP <721> EP-2.2.12	Pharmaceutical Reference Materials	Boiling Point Apparatus
Metals	Internal SOP - based on USP<730> EP-2.2.57	Pharmaceutical Reference Materials	ICP-OES ICP-MS
Anions	Internal SOP Ion Chromatography Analysis (76435638)	Pharmaceutical Reference Materials	IC
Raman spectroscopy	Internal SOP Raman Spectrometry (95403927)	Raw Materials	Raman Spectrometer
Anions / Nutrients	Internal SOP Ion Chromatography Analysis (76435638)	Environmental Reference Materials	IC
pH and Conductivity	Internal SOP pH by ISE Analysis (76390416) and Conductivity Analysis (76434566)	Environmental Reference Materials	pH Meter Conductivity Meter
TSS, TS, TDS, TPH Oil and Grease, Residue	Internal SOP Gravimetric Analysis (76703597)	Environmental Reference Materials	Analytical Balances Ovens Hot Plate
Spectrophotometric Characterization	Internal SOP UV-Vis Spectrometer (76438979)	Environmental Reference Materials	UV-Vis Spectrophotometer
Acidity / Alkalinity	Internal SOP Titrator (76447297)	Environmental Reference Materials	Titration System
Total Organic Carbon	Internal SOP Total Organic Carbon Analysis (76701743)	Environmental Reference Materials	TOC Analyzer

Chemical


Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Base Neutral Acids (Semi-Volatiles) Volatile Organics Organophosphorus Pesticides Organonitrogen Pesticides Dioxins/Furans PBDEs & PCB Congeners Petroleum Hydrocarbons	Internal SOP Gas Chromatography – Mass Spec (7906034) and Gas Chromatography – Multiple Detectors (79306815)	Environmental Reference Materials	GC-MS GC-FID
PCBs Organochlorine-Pesticides Chlordane Toxaphene Petroleum Hydrocarbons Herbicides	Internal SOP Gas Chromatography – Mass Spec (79306034) and Gas Chromatography – Multiple Detectors (79306815)	Environmental Reference Materials	GC-MS GC-ECD
Nitroaromatics Nitrosamines Carbamates Herbicides	Internal SOP High Pressure Liquid Chromatography (78595345)	Environmental Reference Materials	HPLC
Trace Metals	Internal SOP Trace metal Analysis with ICP (76390655)	Environmental Reference Materials	ICP-OES ICP-MS
Turbidimetry	Internal SOP Turbidity Analysis (80576010)	Environmental Reference Materials	Turbidimeter

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Antibiotic Assay	Autoassay USP<81>	Antibiotics	Digi Counter Plate Reader

Note:

- This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1467.



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