

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 17034:2016

In the field of

REFERENCE MATERIAL PRODUCER

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.

1502S

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 26 July 2024 Certificate Number: AR-1470





SCOPE OF ACCREDITATION TO ISO 17034:2016

Sigma Aldrich RTC, Inc.

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REFERENCE MATERIAL PRODUCER

Valid to: July 26, 2024 Certificate Number: AR-1470

Chemical

Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Reference Materials and Certified Reference Materials	Neat Materials Pharmaceutical APIs Pharmaceutical Impurities Pharmaceutical Excipients Inorganic Salts Solvents Vitamins and Nutraceuticals Dyes Fatty Acids/Esters, Triacyglycerides and Oils Sugars and Sweeteners Antibiotics Nucleotides/Nucleosides Amino Acids Disinfectants Melting Range/Melting Point Standards PAHs Alkanes/Alkenes/Alkynes Polypeptides	 Boiling Point HPLC-MS/MS HPLC LC-MS Q-TOF GC-MS/MS GC UV-Vis Polarimetry Karl Fisher Titration Titration Loss on Drying Residue TLC FTIR Melting Range/Point TOC Refractive Index ICP-OES ICP-MS GC-MS Gravimetry Raman Spectrometer NMR, qNMR





Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Reference Materials and Certified Reference Materials	Biological Clinical Antibiotics	Digi Counter Plate Reader
Reference Materials and Certified Reference Materials	Single and Multi-Component Organic & Inorganic Material in Water and Solvent: Anions Minerals Nutrients Demands pH Oil & Grease Turbidity Residues Cyanide (in various forms) Phenolics Settleable Solids Acidity Surfactants Color Silica Sulfide Metals Chlorine (in various forms) Chlordane (Total) SVOCs VOCs Herbicides TOX Toxaphene PCBs Explosives Pesticides PAHs Dissolved Oxygen	 HPLC-MS HPLC GC-MS/MS GC UV-Vis Karl Fisher Titration Titration Loss on Drying Residue FTIR TOC ICP-OES ICP-MS Ion Chromatography (IC) pH Conductivity GC-MS Gravimetry Turbidimetry



Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Reference Materials and Certified Reference Materials	Single and Multi-Component Organic & Inorganic Material in Water and Solvent: Iodide Oxidation Reduction Perchlorate Salinity Sulfur Tannin and Lignin Thiocyanate Carbamates Dioxins/Furans Formaldehyde Oxygenates PBDEs & PCDEs Pyrethroids Thiabendazole Imazalil Disinfection Byproducts UV254 EDB/DBCP Diquat Endothal Glyphosate Paraquat THMs Hydrocarbons Corrosivity Langelier Index Units Sulfite-SO3	 HPLC HPLC-MS GC UV-Vis Karl Fisher Titration Titration Loss on Drying Residue FTIR TOC ICP-OES ICP-MS Ion Chromatography (IC) pH Conductivity GC-MS Gravimetry Turbidimetry





Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Reference Materials and Certified Reference Materials	Single and Multi-Component Organic & Inorganic Material in Oil: Metals PCBs	GCICP-MSICP-OES
Reference Materials and Certified Reference Materials	Single and Multi-Component Organic & Inorganic Material in Solids: Anions Minerals Nutrients Demands pH Oil & Grease Residues Phenolics Silica Metals Chlordane (Total) SVOCs VOCs Herbicides TOX Toxaphene PCBs Explosives PaHs Perchlorate Sulfur	 HPLC HPLC-MS GC UV-Vis Karl Fisher Titration Titration Loss on Drying Residue FTIR TOC ICP-OES ICP-MS Ion Chromatography (IC) pH Conductivity GC-MS Gravimetry



Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Reference Materials and Certified Reference Materials	Single and Multi-Component Organic & Inorganic Material in Solids: Carbamates Dioxins/Furans Oxygenates PBDEs & PCDEs Pyrethroids Thiabendazole Imazalil EDB/DBCP Diquat Endothal Glyphosate Paraquat THMs	 HPLC HPLC-MS GC UV-Vis Karl Fisher Titration Titration Loss on Drying Residue FTIR TOC ICP-OES ICP-MS Ion Chromatography (IC) pH Conductivity GC-MS Gravimetry

Notes:

- 1. Please contact the RMP organization for more information on CRM uncertainty values, Ucrm values, and other specific lot values. Some of this information may also be available on the RMP's website.
- 2. This scope is formatted as part of a single document including Certificate of Accreditation No. AR-1470.



