



# 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 17043:2010**

In the field of

**PROFICIENCY TESTING PROVIDER**

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](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU  
Expiry Date: 26 July 2024  
Certificate Number: AP-1469



This proficiency testing provider is accredited in accordance with the recognized International Standard ISO/IEC 17043:2010. This accreditation demonstrates technical competence for a defined scope and the operation of a proficiency testing provider quality management system.



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## SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

### Sigma Aldrich RTC, Inc.

2931 Soldier Springs Road  
Laramie, WY 82070  
Scott Stetler Phone: 307-742-5452  
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### PROFICIENCY TEST PROVIDER

Valid to: **July 26, 2024**

Certificate Number: **AP-1469**

#### Chemical

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Pharmaceutical	Impurities	Known Value
Pharmaceutical	Identification	Known Value
Pharmaceutical	Purity	Known Value
Pharmaceutical	Physical Properties	Known Value
Clinical & Diagnostic	Drug Metabolites	Known Value
Clinical & Diagnostic	Physical Properties	Known Value Consensus Value from Participants
Food and Beverage	Pesticides	Consensus Value from Participants
Food and Beverage	Herbicides	Consensus Value from Participants
Food and Beverage	Toxins	Consensus Value from Participants
Food and Beverage	FAMES	Consensus Value from Participants
Food and Beverage	Sugars	Consensus Value from Participants
Cannabis and Cannabis-related Products	Potency	Consensus Value from Participants



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**Chemical**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Cannabis and Cannabis-related Products	Terpenes	Consensus Value from Participants
Cannabis and Cannabis-related Products	Residual Solvents	Consensus Value from Participants
Cannabis and Cannabis-related Products	Pesticides	Consensus Value from Participants
Cannabis and Cannabis-related Products	Heavy Metals	Consensus Value from Participants
Cannabis and Cannabis-related Products	Water Activity	Consensus Value from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Acids	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Adipate/Phthalate	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Base/Neutrals	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Carbamates and Vydate	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Chlorinated Acid Herbicides	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Demands	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Dioxin	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Haloacetic Acids	Known Value



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**Chemical**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Simulated Water, Wastewater, and Solid Environmental Samples	Herbicides	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Inorganic Disinfection/By-Products	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Low Level Analytes	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Low Level PAHs	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Low-Level Halocarbons	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Medium Level Volatile Aromatics	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Medium Level Volatile Ketones/Ethers	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Minerals	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Miscellaneous Analytes	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Nutrients	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Organochlorine Pesticides	Known Value Consensus Values from Participants



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**Chemical**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Simulated Water, Wastewater, and Solid Environmental Samples	Other Herbicides	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	PAH	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	PCBs	Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	PCBs in Oil	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	PCBs in Water	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Pesticides	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Petroleum Hydrocarbons	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Trace Metals	Known Value Consensus Values from Participants
Simulated Water, Wastewater, and Solid Environmental Samples	Volatile Aromatics	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Volatile Halocarbons	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Volatile Ketones/Ethers	Known Value



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**Chemical**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Simulated Water, Wastewater, and Solid Environmental Samples	Volatile Organics	Known Value
Simulated Water, Wastewater, and Solid Environmental Samples	Volatile Petroleum Hydrocarbons	Known Value Consensus Values from Participants

**Microbiological**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Pharmaceutical	Microbial Limit Sterility Microbiological – Aerobic Count	Known Value
Simulated Drinking Water	Microbiology Qualitative	Known Value
Simulated Drinking Water, Waste Water	Microbiology Quantitative	Consensus Values from Participants
Food and Beverages	Microbiology Quantitative	Consensus Values from Participants
Cannabis and Cannabis-related Products	Microbiology Quantitative	Consensus Value from Participants
Cannabis and Cannabis-related Products	Microbiology Qualitative	Known Value



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**Bioassay**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Bioassay Sample	Fathead minnow acute MHSF 25°C-LC50 Fathead minnow chronic MHSF-growth IC25 (SN) Fathead minnow chronic MHSF-growth NOE (SN) Fathead minnow chronic 20% DMW-growth IC25(SN) Fathead minnow chronic 20% DMW-growth NOEC(SN) Ceriodaphnia acute MNSF 25° C-LC50 Ceriodaphnia acute 20% DMW 25°C-LC50 Ceriodaphnia acute 20% DMW 25°C-LC50 Ceriodaphnia chronic 20%-MHSF-survival NOEC Daphnia Magma acute MHSF 25°C-LC50 Daphnia Pulex acute MHSF 25°C-LC50 Mysid acute 40 F 25°C-LC50	Consensus Values from Participants

**Air**

Description of Item	Properties Measured	Procedure for Establishing Assigned Value
Inorganic Impinger Solution	Sulfur Dioxide Nitrogen Oxide (NOx) Fluoride Sulfuric Acid Hydrogen Chloride/Halides/Halogens Particulate Matter Metals Mercury Ammonia	Known Value
Inorganic Filter Paper	Particulate Matter Metals Anions Mercury Lead	Known Value

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AP-1469.

R. Douglas Leonard Jr., VP, PILR SBU