



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Cerilliant Corporation
811 Paloma Drive, Suite A
Round Rock, TX 78665

has been assessed by ANAB
and meets the requirements of international standard

ISO 17034:2016

while demonstrating technical competence in the field of

Reference Material Producer

Refer to the accompanying Scope of Accreditation for information regarding the types of materials to which this accreditation applies.

AR-1353

Certificate Number



ANAB Approval

Certificate Valid: 10/10/2018-11/21/2020
Version No. 005 Issued: 10/10/2018



This reference material producer is accredited in accordance with the recognized International Standard ISO 17034:2016. This accreditation demonstrates technical competence for a defined scope and the operation of an RMP quality management system.



SCOPE OF ACCREDITATION TO ISO 17034:2016

Cerilliant Corporation

811 Paloma Drive, Suite A
 Round Rock, TX 78665
 Lara Sparks 512-310-5109

lara.sparks@milliporesigma.com www.cerilliant.com

REFERENCE MATERIAL PRODUCER

Valid to: **November 21, 2020**

Certificate Number: **AR-1353**

Chemical

Sub-Category of Reference Material	ILAC RM Category	Class or Type of Reference Materials Produced (Include Range Where Applicable)	Methods or Techniques Used in the RMP Laboratory (if Appropriate)
Organic Reference Materials	A3.1	<ul style="list-style-type: none"> • Single and Multi-component organic materials either neat or in dilute organic or aqueous solvents and biological matrices. Dilutions range from 1pg/mL to 100 mg/ml. <p>CRM Categories</p> <ul style="list-style-type: none"> • Pharmaceutical substances • Metabolites • Intermediates • Impurities and Degradants • Drugs of abuse • High-purity environmental contaminants • Polycyclic aromatic hydrocarbons • Pesticides • Dioxins and furans • Chemical warfare 	<ul style="list-style-type: none"> • Chromatography, USP - 621 (HPLC and GC) • Mass Spectrometry USP – 736 (LC-MS and GC-MS) • Nuclear Magnetic Resonance (NMR) USP – 761 • FTIR – USP 197 • Water Determination – Cerilliant Method AM1346 (Karl Fischer Analysis) • Residual Solvent Limits – Cerilliant Method AM 1087 (GC/FIDHeadspace) • Residue on Ignition (sulfated ash) – USP-281 • Optical rotation – USP 781 • Quantitative Nuclear Magnetic Resonance (QNMR) – Cerilliant Method AM1370



		<p>verification compounds</p> <ul style="list-style-type: none"> • Explosives and highly reactive compounds • Stable isotope labeled materials • Ethanol / Alcohol • Vitamins • Hormones • Biomarkers • Phytochemicals • Dietary Supplements 	<ul style="list-style-type: none"> • Value assignment method of testosterone in Matrix by LCMS – AMP5000 • Gravimetric preparation • Volumetric preparation • Density measurement
<p>Health and Industrial Hygiene</p>	<p>A5</p>	<ul style="list-style-type: none"> • Single and Multi-component organic materials either neat or in dilute organic or aqueous solvents and biological matrices. Dilutions range from 1pg/mL to 100 mg/ml. <p>CRM Categories</p> <ul style="list-style-type: none"> • Pharmaceutical substances • Metabolites • Intermediates • Impurities and Degradants • Drugs of abuse • High-purity environmental contaminants • Polycyclic aromatic hydrocarbons • Pesticides • Dioxins and furans • Chemical warfare verification compounds • Explosives and highly reactive compounds • Stable isotope labeled materials 	<ul style="list-style-type: none"> • Chromatography, USP - 621 (HPLC and GC) • Mass Spectrometry USP – 736 (LC-MS and GC-MS) • Nuclear Magnetic Resonance (NMR) USP – 761 • FTIR – USP 197 • Water Determination – Cerilliant Method AM1346 (Karl Fischer Analysis) • Residual Solvent Limits – Cerilliant Method AM 1087 (GC/FID/Headspace) • Residue on Ignition (sulfated ash) – USP-281 • Optical rotation – USP 781 • Quantitative Nuclear Magnetic Resonance (QNMR) – Cerilliant Method AM1370 • Value assignment method of testosterone in Matrix by LCMS – AMP5000 • Gravimetric preparation

		<ul style="list-style-type: none"> • Ethanol / Alcohol • Vitamins • Hormones • Biomarkers • Phytochemicals • Dietary Supplements 	<p>Volumetric preparation Density measurement</p>
<p>Forensic Reference Materials</p>	<p>A8</p>	<ul style="list-style-type: none"> • Single and Multi-component organic materials either neat or in dilute organic or aqueous solvents and biological matrices. Dilutions range from 1pg/mL to 100 mg/ml. CRM Categories <ul style="list-style-type: none"> • Pharmaceutical substances • Metabolites • Intermediates • Impurities and Degradants • Drugs of abuse • High-purity environmental contaminants • Polycyclic aromatic hydrocarbons • Pesticides • Dioxins and furans Chemical warfare verification compounds • Explosives and highly reactive compounds • Stable isotope labeled materials • Ethanol / Alcohol • Vitamins • Hormones • Biomarkers • Phytochemicals • Dietary Supplements 	<ul style="list-style-type: none"> • Chromatography, USP - 621 (HPLC and GC) • Mass Spectrometry USP - 736 (LC-MS and GC-MS) • Nuclear Magnetic Resonance (NMR) USP - 761 • FTIR - USP 197 • Water Determination - Cerilliant Method AM1346 (Karl Fischer Analysis) • Residual Solvent Limits - Cerilliant Method AM 1087 (GC/FID/Headspace) • Residue on Ignition (sulfated ash) - USP-281 • Optical rotation - USP 781 • Quantitative Nuclear Magnetic Resonance (QNMR) - Cerilliant Method AM1370 • Value assignment method of testosterone in Matrix by LCMS - AMP5000 • Gravimetric preparation • Volumetric preparation • Density measurement

<p>General Medicine</p>	<p>B1.1</p>	<ul style="list-style-type: none"> • Single and Multi-component organic materials either neat or in dilute organic or aqueous solvents and biological matrices. Dilutions range from 1pg/mL to 100 mg/ml. <p>CRM Categories</p> <ul style="list-style-type: none"> • Pharmaceutical substances • Metabolites • Intermediates • Impurities and Degradants • Drugs of abuse • High-purity environmental contaminants • Polycyclic aromatic hydrocarbons • Pesticides • Dioxins and furans • Chemical warfare verification compounds • Explosives and highly reactive compounds • Stable isotope labeled materials • Ethanol / Alcohol • Vitamins • Hormones • Biomarkers • Phytochemicals • Dietary Supplements 	<ul style="list-style-type: none"> • Chromatography, USP - 621 (HPLC and GC) • Mass Spectrometry USP - 736 (LC-MS and GC-MS) • Nuclear Magnetic Resonance (NMR) USP - 761 • FTIR - USP 197 • Water Determination - Cerilliant Method AM1346 (Karl Fischer Analysis) • Residual Solvent Limits - Cerilliant Method AM 1087 (GC/FID/Headspace) • Residue on Ignition (sulfated ash) - USP-281 • Optical rotation - USP 781 • Quantitative Nuclear Magnetic Resonance (QNMR) - Cerilliant Method AM1370 • Value assignment method of testosterone in Matrix by LCMS - AMP5000 • Gravimetric preparation • Volumetric preparation • Density measurement
		<ul style="list-style-type: none"> • Single and Multi-component organic materials either neat or in dilute organic or aqueous solvents and biological 	<ul style="list-style-type: none"> • Chromatography, USP - 621 (HPLC and GC) • Mass Spectrometry USP - 736 (LC-MS and GC-MS)

<p>Clinical Chemistry</p>	<p>B2</p>	<p>matrices. Dilutions range from 1pg/mL to 100 mg/ml.</p> <p>CRM Categories</p> <ul style="list-style-type: none"> • Pharmaceutical substances • Metabolites • Intermediates • Impurities and Degradants • Drugs of abuse • High-purity environmental contaminants • Polycyclic aromatic hydrocarbons • Pesticides • Dioxins and furans • Chemical warfare verification compounds • Explosives and highly reactive compounds • Stable isotope labeled materials • Ethanol / Alcohol • Vitamins • Hormones • Biomarkers • Phytochemicals • Dietary Supplements 	<ul style="list-style-type: none"> • Nuclear Magnetic Resonance (NMR) USP – 761 • FTIR – USP 197 • Water Determination – Cerilliant Method AM1346 (Karl Fischer Analysis) • Residual Solvent Limits – Cerilliant Method AM 1087 (GC/FIDHeadspace) • Residue on Ignition (sulfated ash) – USP-281 • Optical rotation – USP 781 • Quantitative Nuclear Magnetic Resonance (QNMR) – Cerilliant Method AM1370 • Value assignment method of testosterone in Matrix by LCMS – AMP5000 • Gravimetric preparation • Volumetric preparation • Density measurement
---------------------------	-----------	--	---

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-1353.



Vice President

