

# The Most Comprehensive Certificate in the Industry Just Got Better!

## The SPEXertificate®

The leader in certified reference materials, **SPEX CertiPrep**, once again pulls away from the competition with a new dimension in certificates of analysis—a **second side!** If you're not getting all this information, you're not getting the most from your certificate.

REPORT OF CERTIFICATION (Second Side) includes Material Source, Instructions for Use, Methods of Preparation, Homogeneity, Statistical Estimator and Confidence Limits, Certification Traveler Report, and Legal Notice as outlined by ISO 9001, ISO 17025, and ISO Guide 34, and consistent with the eight major guides and standards.



Accredited by AZLA for ISO 17025 and Guide 34, and Certified by UL-DQS for ISO 9001.

**Wet Assay calculated via gravimetry**—not based on starting material assay.

Certified by ICP against an actual NIST **standard**—not by an independent source traceable to NIST.

Actual reported values for classical wet assay and ICP of the **final solution**—not reported values of the starting materials or by a calculation.

Each elemental impurity listed with **actual value**—not limited to elements above detection limits.

For Claritas PPT® & Assurance® Standards, up to 68 elements are scanned with **found values**.

Trace impurities of the **final solution**—not of the starting materials.

Stability and accuracy of the **final solution**—not of the starting materials.

Stamped with date of shipment.

Signed by SPEX CertiPrep's Vice President of Inorganic Manufacturing.

**Report of Certification** The SPEXertificate®

**Wet Assay** 10010 mg/L

**Method:** Evaporate to dryness + fuse with Sulfuric Acid, ignite and weigh as Li2SO4

**Instrumental Analysis by ICP Spectrometer:** 10021 mg/L

**Trace Metallic Impurities in the Actual Solution via ICP/ICP-MS Analysis:**

Element	mg/L	Element	mg/L	Element	mg/L	Element	mg/L
Al	<0.005	Ca	<0.009	Fe	0.01	Pb	<0.002
As	<0.01	Cd	<0.006	Na	<0.008	Re	<0.003
B	<0.1	Co	<0.005	Ni	0.8	Sr	<0.001
Ba	0.02	Cr	<0.09	Pb	<0.001	V	<0.03
Be	<0.01	Cu	<0.003	Pd	<0.001	Zn	<0.03
						Zr	<0.003

**Instrumental Properties**  
Density: 1.083 g/mL @ 23.5°C

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Element	mg/L	Element	mg/L	Element	mg/L	Element	mg/L
Bi	<0.001	Fe	0.01	Rb	<0.002	Tl	<0.02
Br	<0.001	Ga	<0.002	Sc	<0.001	U	<0.001
Cd	<0.006	In	<0.001	Sr	<0.001	V	<0.03
Ce	<0.005	K	0.1	Ta	<0.001	Zn	<0.03
Co	<0.005	Mg	<0.06	Tb	<0.001	Zr	<0.003
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