

## 502910 SX-PLZN2-2Y



## SPEXertificate<sup>®</sup>



## Certificate of Reference Material

Catalog Number: PLZN2-2Y **Lot No.** 27-149ZNY

**Description:** 

1000 µg/mL Zinc

Matrix:

2% HNO₃

This ASSURANCE® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for inorganic spectroscopic instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Value:

999 μg/mL ±5 μg/mL

Certified Value is Traceable to:

\* - indicates NIST SRM

† - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

The CRM is prepared gravimetrically using high purity Zinc Metal, Lot# 09231B. The certified value listed is the average of values obtained by classical wet assay and ICP spectrometer analysis.

Refer to side 2 for details of measurement uncertainties.

Classical Wet Assay: 998 µg/mL

Method:

EDTA titration using Eriochrome Black T as indicator. EDTA standardized against Pb(NO3)2

NIST SRM #928

Instrumental Analysis by ICP Spectrometer:

**Uncertified Properties** 

Density:

1.011 g/mL @ 20.0°C

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

Element	μg/mL	Element	μg/mL	Element	μg/mL E	Element	μg/mL	Element	μg/mL	Element	μg/mL
Ag	<0.001	Cr	<0.001	Hg	<0.001	Na	0.006	Rh	<0.001	Te	<0.001
Al	0.002	Cs	<0.001	Ho	<0.001	Nb	<0.001	Ru	<0.001	Th	<0.001
As	<0.001	Cu	< 0.001	tn	<0.001	Nd	<0.001	Sb	<0.001	Ti	<0.001
Au	<0.001	Dy	< 0.001	Ir	<0.001	Ni	<0.001	Sc	<0.001	TI	<0.001
В	<0.002	Er	< 0.001	K	<0.05	Р	<0.2	Se	<0.003	Tm	<0.001
Ва	<0.002	Eu	< 0.001	La	<0.001	Pb	0.001	Si	<0.1	U	<0.001
Be	<0.001	Fe	<0.02	Li	<0.001	Pd	<0.001	Sm	<0.001	V	<0.001
Bi	<0.001	Ga	< 0.001	Lu	<0.001	Pr	<0.001	Sn	<0.001	W	<0.001
Ca	0.02	Gd	<0.001	Mg	0.001	Pt	<0.001	Sr	<0.001	Υ	<0.001
Cd	<0.001	Ge	< 0.001	Mn	<0.001	Rb	<0.001	Ta	<0.001	Yb	<0.001
Ce	<0.001	Hf	< 0.001	Мо	<0.001	Re	<0.001	Tb	<0.001	Zr	<0.001
Co	<0.001										

Balances are calibrated regularly with weight sets traceable to NIST #32856, #32867 and others. This CRM is guaranteed stable and accurate to +/- 0.5% of the certified value. This includes uncertainty components due to preparation, homogeneity by the most precise method, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification:

IAN - - 2025 Certifying Officer:

Katherine Cullinan, QC Manager