

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-13 09:16:00

Date of Next Testing: 2029-03-12 09:16:00

Product Name: **Zirconium dioxide**

CAS Number: 1314-23-4

Specifications & Purity: $\geq 99.99\%$ metals basis, excluding Hf or HfO₂, powder, $\leq 100\text{nm}$

Lot #: C2505471

SKU #: **Z104402**

Version **0**

Analysis #: **475193**

Parameter	Limit Values	Result
Purity Based On Trace Metals Analysis (excluding Hf or HfO ₂)	99.99-100 (%)	99.99 %
Particle size	0-100 (nm)	46.30 nm
Trace Metal Analysis(excluding Hf or HfO ₂)	0-200 (ppm)	92.00 ppm
Appearance (Z104402)	white powder	White powder
ICP Major Analysis	Confirmed to structure	Confirmed to structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager