

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-03-07 11:49:09  
Date of Next Testing: 2030-03-06 11:49:09  
Product Name: **Zirconium dioxide**  
CAS Number: 1314-23-4  
Specifications & Purity:  $\geq 99.99\%$  metals basis, excluding Hf or HfO<sub>2</sub>, powder,  $\leq 100\text{nm}$   
Lot #: C2604822  
SKU #: **Z104402**  
Version: **0**  
Analysis #: **660094**  
Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Particle size	0-100 (nm)	36.28 nm
Purity Based On Trace Metals Analysis (excluding Hf or HfO <sub>2</sub> )	99.99-100 (%)	99.99%
Trace Metal Analysis(excluding Hf or HfO <sub>2</sub> )	0-200 (ppm)	97.00 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



John Su  
QA & QC Manager