

## Certificate of Analysis

Date of Testing: 2023-06-07 15:12:41  
Date of Next Testing: 2027-06-06 15:12:41  
Product Name: **Zirconium dioxide**  
CAS Number: 1314-23-4  
Specifications & Purity: nanopowder,99.99% metals basis excluding Hf or HfO<sub>2</sub>,≤100nm  
Lot #: F2302328  
SKU #: **Z104402**  
Analysis: **216609**

Parameter	Limit Values	Result
Particle size	0-100 (nm)	43.57 nm
Trace Metal Analysis(excluding Hf or HfO <sub>2</sub> )	0-200 (ppm)	100.00 ppm
Purity Based On Trace Metals Analysis (excluding Hf or HfO <sub>2</sub> )	99.99-100 (%)	99.99%
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