

## Certificate of Analysis

Date of Testing: 2023-02-24 20:12:11  
Date of Next Testing: 2027-02-23 20:12:11  
Product Name: **Zirconium dioxide**  
CAS Number: 1314-23-4  
Specifications & Purity: nanopowder,99.99% metals basis excluding Hf or HfO<sub>2</sub>,0.2 ~ 0.4um  
Lot #: B2322003  
SKU #: **Z104399**  
Analysis: **184793**

Parameter	Limit Values	Result
Particle size(D50)(SEM)	0.2-0.4 (µm)	0.21 µm
Trace Metal Analysis(excluding Hf or HfO <sub>2</sub> )	0-200 (ppm)	137.00 ppm
Purity Based On Trace Metals Analysis (excluding Hf or HfO <sub>2</sub> )	99.99-100 (%)	99.99%
Appearance (Z104399)	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