

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-14 11:01:10

Date of Next Testing: 2029-10-13 11:01:10

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 #: J2509695

SKU #: **Z104402**

Version: **0**

Analysis #: **581204**

Storage Temperature: Room temperature, Desiccated, Cool

| Parameter                                                                 | Limit Values           | Result                 |
|---------------------------------------------------------------------------|------------------------|------------------------|
| Particle size                                                             | 0-100 (nm)             | 40.73000 nm            |
| Purity Based On Trace Metals Analysis (excluding Hf or HfO <sub>2</sub> ) | 99.99-100 (%)          | 99.99020 %             |
| Trace Metal Analysis(excluding Hf or HfO <sub>2</sub> )                   | 0-200 (ppm)            | 98.00000 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