

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-06-26 10:05:13  
Date of Next Testing: 2028-06-25 10:05:13  
Product Name: **Zirconium(IV) oxide**  
CAS Number: 1314-23-4  
Specifications & Purity: nanoparticles, dispersion, < 100 nm particle size (BET), 5 wt. % in H2O  
Lot #: F2517453  
SKU #: **Z431833**  
Version: **1**  
Analysis #: **442242**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Grain size	<100 (nm)	2.31 nm
Purity(ICP)	≥5 (%)	5.21 %
PH	7-9	8.45
Fe2O3	0-0.003 (%)	0.00 %
silica(SiO2)	0-0.02 (%)	0.00 %
TiO2	0-0.001 (%)	0.00060 %
Al2O3	0-0.02 (%)	0.00 %
Na2O	0-0.001 (%)	0.00 %
CaO	0-0.002 (%)	0.00 %
Appearance(Z431833)	White liquid	White liquid
Solvent(H2O)	Conform	Conform



John Su  
QA & QC Manager