

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-02 18:55:19  
Date of Next Testing: 2027-03-01 18:55:19  
Product Name: **Silicon dioxide**  
CAS Number: 112945-52-5  
Specifications & Purity: 99.8%,specific surface area (BET) : 380m2/g;particle size : 7-40nm  
Lot #: B2327875  
SKU #: **S104598**  
Analysis: **155039**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.8-100 (%)	99.98 %
Specific surface area (BET)	360-400	380.00
loss on Ignition	0-2.5 (%)	1.30 %
Loss on drying	0-2.5 (%)	0.14 %
Tamped density(2h based on the product after drying 105 °C)	40-60 (g/L)	45.00 g/L
Silica content(Based on the product after ignition)	99.8-100 (%)	99.82 %
Trace Metal Analysis	0-2000 (ppm)	242.00 ppm
PH-value in 4% dispersion	3.7-4.5	3.90
Particle size	7-40 (nm)	14.02 nm
Sieve residue (45µm)	0-0.04 (%)	0.02 %
Carbon content(2h based on the product after drying 105 °C)	0-0.15 (%)	0.07 %
Appearance (S104598)	White flocculent solid	White flocculent solid
ICP: Confirms Silicon Component	Confirmed	Confirmed



John Su  
QA & QC Manager