

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-19 11:08:56
Date of Next Testing: 2029-09-18 11:08:56
Product Name: **Nano fumed silica**
CAS Number: 112945-52-5
Specifications & Purity: Hydrophilicity, $\geq 99.8\%$ metals basis, specific surface area(BET):380m²/g;particle size:7-40nm
Lot #: L2107838
SKU #: **S104598**
Version: **1**
Analysis #: **573715**
Storage Temperature: Room temperature

| Parameter | Limit Values | Result |
|---|------------------------|------------------------|
| Purity(Based On Trace Metals Analysis) | 99.8-100 (%) | 99.94450 % |
| Specific surface area (BET) | 360-400 | 379.00000 |
| loss on Ignition | 0-2.5 (%) | 0.89000 % |
| Loss on drying | 0-2.5 (%) | 0.89300 % |
| Tamped density(2h based on the product after drying 105 °C) | 40-60 (g/L) | 49.00000 g/L |
| Silica content(Based on the product after ignition) | 99.8-100 (%) | 99.90000 % |
| Trace Metal Analysis | 0-2000 (ppm) | 555.00000 ppm |
| PH-value in 4% dispersion | 3.7-4.5 | 3.90000 |
| Particle size | 7-40 (nm) | 12.80000 nm |
| Sieve residue (45µm) | 0-0.04 (%) | 0.01200 % |
| Appearance (S104598) | White flocculent solid | White flocculent solid |
| ICP: Confirms Silicon Component | Confirmed | Confirmed |



John Su
QA & QC Manager