

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

### Certificate of Analysis

Date of Testing: 2025-10-09 15:11:56  
Date of Next Testing: 2031-10-08 15:11:56  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity:  $\geq 99.8\%$  metals basis, 13nm(TEM)  
Lot #: K1921066  
SKU #: **A299044**  
Version: **0**  
Analysis #: **578242**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
pH	4.5-5.5	4.90000
Specific Surface Area	85-115 (m <sup>2</sup> /g)	99.00000 m <sup>2</sup> /g
Purity(Based On Trace Rare Earth Analysis)	99.8-100 (%)	99.90000 %
Loss on drying	0-5 (%)	0.50000 %
Average particle size	11-15 (nm)	13.00000 nm
Total Metallic Impuritie	0-2000 (ppm)	1000.00000 ppm
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager