

## Certificate of Analysis

Date of Testing: 2022-01-21 16:11:48  
Date of Next Testing: 2026-01-20 16:11:48  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity: nanopowder,  $\alpha$ -phase, 150nm, 99.9%  
Lot #: A2219272  
SKU #: **A299286**  
**Analysis: 061102**

| Parameter   | Limit Values                      | Result                            |
|---|-----------------------------------|-----------------------------------|
| Particle size                                       | 100-200 (nm)                      | 134.69 nm                         |
| Total Metallic Impuritie                            | 0-2000 (ppm)                      | 197.00 ppm                        |
| Purity(Based On Trace Metals Analysis)              | 99.9-100 (%)                      | 99.98 %                           |
| Appearance (A299286)<br>phase( $\alpha$ )           | White powder<br>$\alpha$ -phase   | White powder<br>$\alpha$ -phase   |
| X-Ray Diffraction<br>surface properties,Hydrophilic | Conforms to Structure<br>Conforms | Conforms to Structure<br>Conforms |



John Su  
QA & QC Manager