

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-30 09:15:48  
Date of Next Testing: 2028-09-29 09:15:48  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity: nanoparticles,  $\alpha$ -phase, 30 nm particle size, 20 wt. % in H<sub>2</sub>O  
Lot #: I2424118  
SKU #: **A119405**  
Version: **1**  
Analysis #: **412131**

Parameter	Limit Values	Result
Average particle size	20-40 (nm)	30.00 nm
Al <sub>2</sub> O <sub>3</sub>	19-21 (wt%)	20.40 wt%
Total Metallic Impurity	0-1000 (ppm)	100.00 ppm
Purity (Based On Trace Metals Analysis)	99.9-100 (%)	99.99 %
Appearance (A119405)	White Suspension	White Suspension
phase ( $\alpha$ )	$\alpha$ -phase	$\alpha$ -phase
ICP: Confirms Aluminum Component	Confirmed	Confirmed



John Su  
QA & QC Manager