

## Certificate of Analysis

Date of Testing: 2022-10-21 13:13:55  
Date of Next Testing: 2026-10-20 13:13:55  
Product Name: **Cerium oxide**  
CAS Number: 1306-38-3  
Specifications & Purity: 99.95% metals basis, <50 nm (SEM)  
Lot #: J2217174  
SKU #: **C103983**  
Version: **0**  
Analysis #: **139333**

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	100.00 %
Trace Rare Earth Analysis	0-500 (ppm)	3.00 ppm
Particle Size(TEM)	0-50 (nm)	16.32 nm
Appearance (C103983)	White to yellow powder or crystals	White to yellow powder or crystals
ICP: Confirms Cerium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager