

## Certificate of Analysis

Date of Testing: 2023-01-14 13:28:23  
Date of Next Testing: 2027-01-13 13:28:23  
Product Name: **Cerium oxide**  
CAS Number: 1306-38-3  
Specifications & Purity: 99.95% metals basis,<50 nm (SEM)  
Lot #: A2305252  
SKU #: **C103983**  
**Analysis: 157120**

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	99.96%
Trace Rare Earth Analysis	0-500 (ppm)	428.00 ppm
Particle Size(TEM)	0-50 (nm)	14.78 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