

Certificate of Analysis

Date of Testing: 2023-05-11 10:56:05
Date of Next Testing: 2025-04-30 10:56:05
Product Name: **Cerium nitrate hexahydrate**
CAS Number: 10294-41-4
Specifications & Purity: 99.95% metals basis
Lot #: E2305253
SKU #: **C105378**
Analysis: **208507**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	100.00 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-500 (ppm)	24.00 ppm
Cerium(Ce)	31.1-33.4 (%)	33.14 %
CeO ₂ (redox titration)	38.8-40.5 (%)	40.12500 %
Appearance (C105378)	White to Off-White Moist Crystals and/or Chunks	White to Off-White Moist Crystals and/or Chunks
ICP: Confirms Cerium Component	Confirmed	Confirmed
Solubility in H ₂ O , Clear , Colorless(c =pass 5%, H ₂ O)		Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager