

Certificate of Analysis

Date of Testing: 2023-09-08 10:30:16

Date of Next Testing: 2025-08-28 10:30:16

Product Name: **Cerium nitrate hexahydrate**

CAS Number: 10294-41-4

Specifications & Purity: 99.95% metals basis

Lot #: 12306286

SKU #: **C105378**

Analysis: **252719**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	99.98 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-500 (ppm)	159.00 ppm
CeO2(redox titration)	38.8-40.5 (%)	39.89000 %
Cerium(Ce)	31.1-33.4 (%)	32.47 %
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 H2O , Clear , Colorless(c =pass 5%, H2O)		Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager