

## Certificate of Analysis

Date of Testing: 2022-11-02 19:15:29  
Date of Next Testing: 2024-10-22 19:15:29  
Product Name: **Cerium nitrate hexahydrate**  
CAS Number: 10294-41-4  
Specifications & Purity: 99.95% metals basis  
Lot #: K2201302  
SKU #: **C105378**  
**Analysis: 137444**  
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)	3.00 ppm
Cerium(Ce)	31.1-33.4 (%)	33.37 %
CeO2(redox titration)	38.8-40.5 (%)	39.92000 %
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



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QA & QC Manager