

Certificate of Analysis

Date of Testing: 2023-08-08 15:07:18

Date of Next Testing: 2026-08-07 15:07:18

Product Name: **Samarium(III) oxide**

CAS Number: 12060-58-1

Specifications & Purity: nanopowder, <100 nm particle size (BET), ≥99% trace metals basis

Lot #: H2304055

SKU #: **S431575**

Analysis: **261334**

Parameter	Limit Values	Result
Samarium(Sm)	85.0-87.5 (%)	86.00000 %
Trace Rare Earth Analysis	0-10000 (ppm)	252.00 ppm
Particle size	<100 (nm)	67.27 nm
Purity(Based On Trace Rare Earth Analysis)	99-100 (%)	99.97 %
Appearance(S431575)	White To Off-White Powder	White to Off-White Powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
ICP: Confirms Samarium Component	Confirmed	Confirmed



John Su
QA & QC Manager