

## Certificate of Analysis

Date of Testing: 2022-09-12 10:42:59

Date of Next Testing: 2026-09-11 10:42:59

Product Name: **Samarium oxide**

CAS Number: 12060-58-1

Specifications & Purity: nanopowder,  $\leq 100\text{nm}$ , 99.5% metals basis

Lot #: I2207173

SKU # **S299525**

**Analysis:** **133250**

| Parameter                                  | Limit Values              | Result                    |
|--------------------------------------------|---------------------------|---------------------------|
| Trace analysis of ICP                      | 0-5000 (ppm)              | 1819.00 ppm               |
| Particle size                              | 0-100 (nm)                | 64.30 nm                  |
| Purity(Based On Trace Rare Earth Analysis) | 99.5-100 (%)              | 99.82 %                   |
| Appearance (S299525)                       | White to Off-White Powder | White to Off-White Powder |
| ICP: Confirms Samarium Component           | Confirmed                 | Confirmed                 |
| X-Ray Diffraction                          | Conforms to Structure     | Conforms to Structure     |



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