

## Certificate of Analysis

Date of Testing: 2022-07-26 16:45:30  
Date of Next Testing: 2026-07-25 16:45:30  
Product Name: **Samarium(III) chloride**  
CAS Number: 10361-82-7  
Specifications & Purity: anhydrous, powder, 99.9%  
Lot #: G2220612  
SKU #: **S119219**  
**Analysis:** **103794**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Trace Rare Earth Analysis	0-2000 (ppm)	462.00 ppm
Purity(Based On Trace Rare Earth Analysis)	99.9-100 (%)	99.95 %
Complexiometric EDTA (% Sm)	57.7-59.4 (%)	58.40 %
Water by Karl Fischer	0-3 (%)	0.86 %
Appearance (S119219)	off-white to yellow powder	off-white to yellow powder
ICP Assay	Confirmed to structure	Confirmed to structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager