

## Certificate of Analysis

Date of Testing: 2024-08-19 10:14:32  
Date of Next Testing: 2028-08-18 10:14:32  
Product Name: **Samarium(III) chloride**  
CAS Number: 10361-82-7  
Specifications & Purity: anhydrous, powder, 99.9%  
Lot #: H2408511  
SKU #: **S119219**  
Version: **0**  
Analysis #: **393094**  
Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Trace Rare Earth Analysis	0-2000 (ppm)	154.00 ppm
Purity(Based On Trace Rare Earth Analysis)	99.9-100 (%)	99.98 %
Complexiometric EDTA (% Sm)	57.7-59.4 (%)	58.63 %
Water by Karl Fischer	0-3 (%)	0.31 %
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