

Certificate of Analysis

Date of Testing: 2022-12-18 22:30:09

Date of Next Testing: 2026-12-17 22:30:09

Product Name: **Thulium(III) acetate hydrate**

CAS Number: 314041-04-8

Specifications & Purity: 99.9% (REO)

Lot #: L2214537

SKU #: **T192674**

Analysis: **156969**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Based on Rare Earth Analysis)	99.9-100 (%)	99.97 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-1500 (ppm)	334.00 ppm
Thulium by ICP	38-44 (%)	38.01 %
Appearance (T192674)	White to pale green powder to crystalline powder	White to pale green powder to crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager