

## Certificate of Analysis

Date of Testing: 2025-06-23 14:54:32

Date of Next Testing: 2028-06-22 14:54:32

Product Name: **Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)thulium(III)**

CAS Number: 15631-58-0

Specifications & Purity:  $\geq 98\%$ ,  $\geq 99.9\%$  metals basis(REO)

Lot #: F2516023

SKU #: **T283035**

Version: **2**

Analysis #: **173723**

Storage Temperature: Argon charged

| Parameter                                         | Limit Values          | Result                |
|---------------------------------------------------|-----------------------|-----------------------|
| Purity(Based on Rare Earth Analysis)              | 99.9-100 (%)          | 99.99 %               |
| Trace Rare Earth Analysis(by ICP Atomic emission) | 0-1000 (ppm)          | 81.00 ppm             |
| Purity(HPLC)                                      | 98-100 (%)            | 98.02000 %            |
| NMR Spectrum 1H                                   | Conforms to Structure | Conforms to Structure |
| ICP: Confirms Thulium Component                   | Confirmed             | Confirmed             |



John Su  
QA & QC Manager