

## Certificate of Analysis

Date of Testing: 2023-04-14 16:18:05  
Date of Next Testing: 2027-04-13 16:18:05  
Product Name: **(1,10-Phenanthroline)tris[4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedionato]europium(III)**  
CAS Number: 17904-86-8  
Specifications & Purity: 98%  
Lot #: D23031335  
SKU #: **P121293**  
Analysis: **164168**

Parameter	Limit Values	Result
Purity(Chelometric Titration)	97.5-102.5 (%)	100.40 %
Purity(HPLC)	98-100 (%)	98.21000 %
Melting point	245-251 (°C)	245.52000 °C
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager