

Avocado Research Chemicals (Thermo Fisher Scientific) Shore Road, Port of Heysham Industrial Park Heysham, LA3 2XY, United Kingdom

## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by LRQA. Certificate Number. 10551915

Catalogue Number	014579
Lot Number	10254935

Description Thulium(III) nitrate hydrate, REacton®, 99.9% (REO)

CAS Number 100641-15-4
Quality Test/Release Date 29/Apr/2025
Suggested retest date 29/Apr/2035
Country of Origin Turkey
Declaration of Origin Synthetic

Result Name	Units	Specifications	Test Value	
Appearance (Color)		White to pale cream	White	
Form		Crystalline aggregates	Crystalline	
Total Rare Earth Oxide Impurities	%	≤0.1% (≤1000ppm)	<0.04	
Total rare earth oxides	%	≥99.9%	99.9	
Total rare earth oxides	%	≥99.9%	99.9	

Paul Coleman Site Quality Manager

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.