

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
Certificate Number. 951001163

Catalogue Number 036222  
Lot Number T23L006  
Description Spectroflux® 120A, Lithium tetraborate Lithium fluoride, 90:10 w/w%  
Quality Test/Release Date 23/Jul/2025  
Suggested retest date 23/Jul/2030  
Country of Origin Spain

Result Name	Units	Specifications	Test Value
Comment		Li:B Ratio: 0.415-0.459	0.435
Appearance (Color)		White	White
Elemental Analysis	%	Boron (theoretical): 23.01%	23.15
Elemental Analysis	%	Lithium (theoretical): 10.06%	10.06
Form		Powder	Powder
Impurity content		Silicon: =< 200ppm; Others: =<50ppm max. each	Si:11
Loss on ignition	%	≤4.0% (30 minutes/900°C)	1.30
Total Metal Impurities	ppm	Aluminium; =<50ppm; Calcium: =< 50ppm	Al:<1; Ca:15
Total Metal Impurities	ppm	Potassium: ≤50ppm; Sodium: 80ppm	K:<1; Na:28

**Additional Information** Ag <1 , As <1 , Ba <1 , Bi <1 , Cd <1 , Co <1 , Cr <1 , Cu <1 , Fe <1 , Ga <1 , K <1 , La <1 , Mg <1 , Mn <1 , Mo <1 , Ni <1 , P <5 , Pb <1 , Sc <1 , Sn <1 , Sr <1 , V <1 , Zn <1 , Zr <1 , Values given in ppm unless otherwise stated.

*John Astarita*

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Director, Quality

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.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.