

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	087614
Lot Number	Y05L012
Description	Bromine liquid, 99.99+% (metals basis)
CAS Number	7726-95-6
Quality Test/Release Date	05/Nov/2025
Suggested retest date	05/Nov/2030
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Assay	%	Sulfur Compounds \leq 0.001 %	<0.001
		Purity Based on Trace Metals	
Assay	%	Analysis \geq 99.99% : Meets Requirements	=>99.99
Assay	ppm	Nickel (Ni) \leq 5 ppm	<1
Assay	%	Iodine \leq 0.001 %	<0.001
Assay	%	Free Chlorine \leq 0.05 %	<0.01
Assay (special)	%	Titration by Na ₂ S ₂ O ₃ \geq 99.5 %	100.0
Appearance (Color)		Very Dark Red-Brown	Very dark red
Form		Liquid	Liquid
Heavy Metals (as Pb)	ppm	Heavy Metals (as Lead) \leq 2 ppm	<1
Residue on Evaporation	%	Residue on Evaporation \leq 0.005 %	<0.001
Trace Metals	ppm	Trace Metal Analysis \leq 100.0 ppm	34.1

Additional Information Al 1.2 , B 0.6 , Ca 22.3 , Fe 0.6 , Mg 5.1 , Na 3.7 , Ti 0.2 , Values given in ppm unless otherwise stated.



Derek Roy
 Quality Manager, LCD

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.