

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	20424		
Lot Number	A0483961		
Description	Betaine,98%,for analysis,anhydrous		
CAS Number	107-43-7		
Quality Test/Release Date	09/Jun/2026		
Suggested retest date	09/Jun/2028		
Country of Origin	CHINA		
Declaration of Origin	plant		
BSE/TSE	extracted from sugar beet molasses		
Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Infrared spectrum		Conforms	Conforms
Titration with HClO ₄	%	97.5 to 102.5	99.2
Loss on drying	%	≤1 (140°C, 3 h)	0.46 (140°C, 3 h)
Heavy metals (as Pb)	ppm	≤10	≤10
Sulfated ash	%	≤0.1	0.01
UV transmittance	%	≥95 (c=10, H ₂ O, 430 nm) 1 cm cell	99.9 (c=10, H ₂ O, 430 nm) 1 cm cell
Chloride (Cl)	ppm	≤200	≤200
Sulfate (SO ₄)	ppm	≤200	≤200
Ammonium (NH ₄)	ppm	≤200	≤200
Iron (Fe)	ppm	≤20	≤20

Geert Torfs
Supervisor, QC

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.