

## 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	12502
Lot Number	A0471202
Description	Sodium carbonate decahydrate,99+%,for biochemistry
CAS Number	6132-02-1
Quality Test/Release Date	22/Apr/2025
Suggested retest date	22/Apr/2030
Country of Origin	GERMANY
Declaration of Origin	synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystals	Crystals
Titration with HCl	%	99.0 to 102.0	101.0
Solubility		(0.5 M in water) Clear colorless	(0.5 M in water) Clear colorless
pH		11.0 to 12.5 (0.5 M in water)	11.2 (0.5 M in water)
Heavy metals (as Pb)	ppm	=<5	=<5
UV		at 260 nm A: =<0.05	at 260 nm A:0.013
UV		at 280 nm A: =<0.03	at 280 nm A:0.011
UV		(0.5 M in water)	(0.5 M in water)
Chloride (Cl)	%	=<0.001	=<0.001
PO4 and SiO2 (as SiO2)	%	=<0.003	=<0.003
Aluminium (Al)	%	=<0.0005	=<0.0005
Arsenic (As)	%	=<0.0002	=<0.0002
Calcium (Ca)	%	=<0.002	=<0.002
Iron (Fe)	%	=<0.0002	=<0.0002
Magnesium (Mg)	%	=<0.0002	=<0.0002
Potassium (K)	%	=<0.005	=<0.005
Total nitrogen (as N)	%	=<0.0005	=<0.0005
Total sulfur (as SO4)	%	=<0.003	=<0.003

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

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.

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.

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