

## 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	17008
Lot Number	A0479815
Description	alpha-D(+)-Glucose,99+%,anhydrous
CAS Number	492-62-6
Quality Test/Release Date	28/Jan/2026
Suggested retest date	28/Jan/2031
Country of Origin	FRANCE
Declaration of Origin	plant
BSE/TSE	extracted from wheat or maize

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to almost white	White
Appearance (Form)		Crystalline powder	Crystalline powder
Infrared spectrum		Conforms	Conforms
Specific optical rotation		+52.5° to +53.3° (20°C, 589 nm) (c=10, H <sub>2</sub> O/diluteNH <sub>3</sub> )	+52.9° (20°C, 589 nm) (c=10, H <sub>2</sub> O/diluteNH <sub>3</sub> )
Specific optical rotation		on anhydrous substance	on anhydrous substance
Appearance of solution		(10g in 15ml water) Passes test	(10g in 15ml water) Passes test
HPLC	%	>=99.0	99.9
Related substances	%	=<0.4 (Maltose + Isomaltose)	=<0.4 (Maltose + Isomaltose)
Related substances	%	=<0.2 (Maltotriose)	=<0.2 (Maltotriose)
Related substances	%	=<0.15 (Fructose)	=<0.15 (Fructose)
Dextrin		Passes test	Passes test
Soluble starch, sulfite	ppm	=<15	=<15
Water	%	=<1.0 (K.F.)	0.4 (K.F.)

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.