Acros Organics BV (Thermo Fisher Scientific)
Janssen Pharmaceuticalaan 3a
Geel,
2440, Belgium

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	38819
Lot Number	A0476595
Description	D(+)-Glucose, anhydrous, specificied according to the requirements of Ph.Eur., USP, BP
CAS Number	50-99-7
Quality Test/Release Date	08/Oct/2025
Suggested retest date	08/Oct/2030
Country of Origin	FRANCE
Declaration of Origin	plant

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to almost white	White
Appearance (Form)		Crystalline powder	Crystalline powder
Identification		Passes test (EP, USP)	Passes test (EP, USP)
Specific optical rotation		+52.5° to +53.3° (20°C, 589 nm) (C=10,H2O/dilute NH3)	+52.6° (20°C, 589 nm) (C=10,H2O/dilute NH3)
Specific optical rotation		(Anhydrous substance)	(Anhydrous substance)
Specific optical rotation		+52.6° to +53.2° (20°C, 589 nm) (C=10, 0.012N NH4OH)	+52.6° (20°C, 589 nm) (C=10, 0.012N NH4OH)
Assay	%	97.5 to 102.0 (Anhydrous substance)	98.9 (Anhydrous substance)
Appearance of solution		(EP) Passes test	(EP) Passes test
Color of solution		(USP) Passes test	(USP) Passes test
Conductivity	µS/cm	=<20	=<20
Related substances	%	=<0.4 (sum of impurities A and B)	=<0.4 (sum of impurities A and B)
Related substances	%	=<0.2 (impurity C)	=<0.2 (impurity C)
Related substances	%	=<0.15 (impurity D)	=<0.15 (impurity D)
Related substances	%	=<0.10 (unspecified impurities)	=<0.10 (unspecified impurities)
Related substances	%	=<0.5 (total impurities)	=<0.5 (total impurities)
Dextrin		(EP, USP) Passes test	(EP, USP) Passes test
Soluble starch, sulfite	ppm	=<15 (EP)	=<15 (EP)
Soluble starch, sulfite		(USP) Passes test	(USP) Passes test
Sulfated ash	%	=<0.1 (1 g, 600°C)	=<0.1 (1 g, 600°C)
Chloride (Cl)	%	=<0.018	=<0.018
Sulfate (SO4)	%	=<0.025	=<0.025
Arsenic (As)	µg/g	=<1	=<1
Acidity		(USP) Passes test	(USP) Passes test
Loss on drying	%	=<0.5 (1 g, 105°C, 16 h)	=<0.5 (1 g, 105°C, 16 h)
Water	%	=<1.0 (K.F.)	0.2 (K.F.)

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.

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Geert Torfs
Supervisor, QC

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