



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 12684 Lot Number A0474053

Description N-Methyl-D-glucamine,99%

CAS Number 6284-40-8
Quality Test/Release Date 04/Jul/2025
Suggested retest date 04/Jul/2027
Country of Origin CHINA
Declaration of Origin plant

BSE/TSE made by chemical synthesis with Methylamine and D-Glucose, which is source from

corn

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to almost white	White
Appearance (Form)		Crystalline powder	Crystalline powder
Infrared spectrum		Conforms	Conforms
Melting point		128°C to 132°C	128.5°C
Titration with HCIO4	%	98.5 to 101.5 (on dried substance)	100.4 (on dried substance)
Loss on drying	%	=<1 (1 g, 100°C, 3 h)	0.03 (1 g, 100°C, 3 h)
Heavy metals (as Pb)	ppm	=<20	=<20
Sulfated ash	%	=<0.1	0.03
Specific optical rotation		-15.7° to -17.3° (20°C, 589 nm) (c=10, H2O)	-16.7° (20°C, 589 nm) (c=10, H2O)
Specific optical rotation		on dried substance	on dried substance
Iron (Fe)	ppm	=<10	=<10
Chloride (CI)	ppm	=<100	=<100
Sulfate (SO4)	ppm	=<150	=<150
UV		(20 % w/v in water)	(20 % w/v in water)
UV		at 420 nm A: =<0.03	at 420 nm A:0.018

Geert Torfs Supervisor, QC

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