



Specification

Concerning Product:	
Article number	3458284APUL
Trade name / designation / denomination	D-Mannose, USP
CAS number	3458-28-4
Other names / synonyms	•6-(hydroxymethyl)oxane-2,3,4,5-tetrol; •D-mannose;
EC number	222-392-4
Customs tariff number / CN code / TARIC	29400000
Molecular weight [g / mol]	180.15588
Formula	C ₆ H ₁₂ O ₆

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	10.0 % in H ₂ O	clear and colourless	
Appearance		white crystalline powder	
Odour		characteristic	
Physical parameter			
Loss on drying	USP38-NF33	≤ 0,5	%
Specific Optical Rotation	USP38-NF33	13,3 – 14,3	°
Bulk density	USP38-NF33	0,30 – 0,50	g/ml
Tamped density	USP38-NF33	0,45 – 0,75	g/ml
Identity			
Assay	HPLC	≥ 99,0	%
Identification	FTIR	positive	
Melting Point (identity)	USP38-NF33	126,0 – 134,0	°C
Impurities			
Residue on ignition	USP38-NF33	≤ 0,1	%
Heavy Metals (as Pb)	Atomic Absorption	≤ 10,0	mg/kg
Residual Solvents			
Residual solvents	EC 2009/32	complies	
Elemental Impurities			
Arsenic (As)	Atomic Absorption	≤ 2,0	mg/kg
Cadmium (Cd)	Atomic Absorption	≤ 1,0	mg/kg
Mercury (Hg)	Atomic Absorption	≤ 0,1	mg/kg
Lead (Pb)	Atomic Absorption	≤ 3,0	mg/kg
Microbiological data			
Escherichia Coli.	CP2015	Negative	CFU/g
Salmonella	CP2015	Negative	
Staphylococcus Aureus	CP2015	Negative	
Total Plate Count	CP2015	≤ 3000	CFU/g
Yeast and Mould	CP2015	≤ 300	CFU/g

Particle size distribution			
Particles pass 30 mesh	USP	≥ 95,0	%

Annotation:

Product is free of allergens according to Reg. (EU) No. 1169/2011 Annex II.
Product is irradiation free according to Dir. (EC) 1992/2/EG and 1169/2011.
Product is GMO free and complies to Reg. (EC) No. 1829/2003 and 1830/2003.
Product is suitable for vegetarian and vegan diets.
Product conforms to TSE/BSE Reg. (EC) No. 999/2001.
Product is suitable and safe for human consumption acc. to Reg. (EC) 178/2002.
Product conforms to the Solvents Dir. (EC) 2009/32.

Supplemental information:**Shelf life:** 24 month**Storage conditions:** Store in a cool and dry place protected against strong light and heat.**Packing:** Packed in paper-drums of 25 kg each with two plastic-bags inside.**Regional origin:** CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 23. Nov. 2021

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