

SPECIFICATION

Product : D-GLUCOSAMINE SULFATE SODIUM CHLORIDE

Species : crust, carapace skin of crustacea

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Product-no. : 5210005900

Version : 5

Synonym : D-Glucosamin Sulfat (ASK)

Valid from : 11/10

CAS-no. : 3416-24-8

Formula : $(C_6H_{14}NO_5)_2SO_4 \cdot 2NaCl$

Mol.-weight : 281.22

Controls	Specification	Method
Description	white, crystalline free flowing powder	USP32 <695>
Identification	A: infrared absorption B: it meets the requirements of tests for chloride and Sodium C: the retention time in the assay corresponds to the standards	USP32 <197K> USP32 <191> USP32 <621>
Specific rotation	+ 50° to + 55°	USP32 <781S>
Transm. (10% water solution 450 nm)	≥ 90 .0 %	USP32 <197>
Loss on drying (at 105 ° for 2h)	≤ 1.0 %	USP32 <731>
Residue on ignition	22.5 – 26.0 %	USP32 <281>
pH	3.0 - 5.0	USP32 <791>
Heavy metals	≤ 10 ppm	USP32 <231> Method II
Lead	≤ 3 ppm	USP32 <251>
Iron	≤ 10 ppm	USP32 <241>
Arsenic	≤ 3 ppm	USP32 <211> Method II
Chloride	11.7 - 13.0 %	USP32 <221>
Sulfate content	16.3 – 17.3 %	USP32 P1031 (COS)
Potassium	no precipitate is found	USP32 P1031 (S)
Organic Volatile	meets the requirements of the USP	USP32 <467> Method I
Sodium	7.0 – 8.3 %	USP32 <191>

please turn over



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Controls	Specification	Method
Bulk density	≥ 0.85 g/ml	USP32 <616>
Particle size	all through 30 mesh	USP32 <811>
Assay	98.0 – 102.0 %	USP32 page 1032(A), <621>
<i>Microbiological tests</i>		
Total bacterial count	≤1000 CFU/g	USP32 <61>
Yeast and mould	≤100 CFU/g	USP32 <61>
Escherichia coli	negative	USP32 <61>
Salmonella	negative	USP32 <61>
Staphylococcus aureus	negative	USP32 <61>

Primary packing	: polybags or security container
Storage	: well closed light-resistant containers
Durability	: 24 months