



青岛润昌化工有限公司
QINGDAO SAMIN CHEMICAL CO.,LTD.

SPECIFICATION

Product Name	D-Glucosamine HCL
CAS No	66-84-2
Molecular Formula	$C_6H_{13}NO_5 \cdot HCl$
Specification Version	USP34
Shelf Life	24Months
Package	25kg / drum

ITEM	SPECIFICATION
Appearance	Free white Powder
Odour	Odourless
Bulk Density	$\geq 0.55g/ml$
As Tapped Density	Meets the requirements of USP34
Particle size	100% through 80 Mesh
Assay(HPLC)	98.0% ~ 102.0%
Identification	
A:Infrared Absorption	Meets the requirement
B:Tests for Chloride,Potassium an Sulfate	Meets the requirement
C:Retention time in the Assay	Corresponds to the reference standard
Transm	$\geq 90.0\%(10.0\% \text{ Water Solu-450nm})$
Absorb	$< 0.25a.u.(10.0\% \text{ water Solut-280nm})$
Specific Rotation	$+70^\circ \sim +73.00^\circ$
PH(20mg/ml.aq.sol.)	3.0~ 5.0
Loss on Drying	$\leq 0.5\%$
Residue on Ignition	$\leq 0.1\%$
Chloride	16.0% ~ 17.0%
Sulfate	$\leq 0.24\%$
Heavy Metals	$\leq 10 \text{ ppm}$
Iron	$\leq 10 \text{ ppm}$
Lead	$\leq 0.5 \text{ ppm}$
Arsenic	$\leq 1.0 \text{ ppm}$
Mercury	$\leq 0.1 \text{ ppm}$
Cadmium	$\leq 0.5 \text{ ppm}$
Organic volatile impurities	Meets the requirement

Microbiological Characteristics

Total Aerobic	$\leq 1000 \text{ cfu/g}$
Yeast & Mold	$\leq 100 \text{ cfu/g}$
E.Coli	Negative in 1g
Salmonella	Negative in 1g
Staphylococcus Aureus	Negative in 10g
Enterobacteria & other gram neg	$\leq 100\text{cfu/g}$

Storage: Store in cool and dry place, in a well-closed container, keep away from strong light and heat.

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