

CERTIFICATE OF ANALYSIS

Product Name:	D-Glucosamine hydrochloride	Batch No.	JL20220805
Cas	66-84-2	MF Date	Aug. 05, 2022
Packing	25KGS/DRUM	Analysis Date	Aug. 05, 2022
Quantity	1MT	Expiry Date	Aug. 04, 2024
ITEM 分析项目	STANDARD 技术指标	RESULT 实测结果	
Appearance	White Crystalline, Free Flowing Powder	Conform	
Odour	Odourless	Conform	
Purity(HPLC)	98.0%~102.0% (on the dried basis)	99.62%	
Bulk Density	NLT0.70g/mL	0.83g/mL	
As Tapped Density	Meets the requirements of USP42	Conform	
Particle Size	NLT 98% through 30 Mesh	Conform	
Identification	A: Infrared Absorption	Conform	
	B: Tests for Chloride	Conform	
	C: Retention time in the Assay	Conform	
Transm	>90.0% (10.0%Water Solut.-450nm)	97.3%	
Absorb	<0.25a.u. (10.0% Water Solut.-280nm)	0.02a.u.	
Specific Rotation (α) D²⁰	+70.0°~+73.0°	+72.75°	
pH (20mg/ml.aq.sol.)	3.0~5.0	4.55	
Loss on Drying	NMT0.5%	0.01%	
Residue on Ignition	NMT0.1%	0.02%	
Chloride (Cl)	16.0%~17.0%	16.63%	
Sulfate	NMT 0.24%	Conform	
Heavy Metals	NMT 10 ppm	Conform	
Iron (fe)	NMT 10 ppm	Conform	

Lead	NMT 0.5 ppm	0.09ppm
Arsenic (As)	NMT 1.0 ppm	Conform
Mercury	NMT 0.1 ppm	0.05ppm
Cd	NMT 0.5ppm	0.04ppm
Organic volatile impurities	Meets the Requirements	Conform
Microbial	Total Aerobic , NMT1,000cfu/g	NMT100cfu/g
	Yeast&Mold, NMT100cfu/g	NMT30cfu/g
	E.Coli, Negativein1g	Negative
	Salmonella, Negativein1g	Negative
	StaphylococcusAureus, Negativein10g	Negative
	Enterobacteria&othergramneg, NMT100cfu/g	NMT30cfu/g
Standard	MeetsUSP42standards	
Conclusion	Qualified	

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