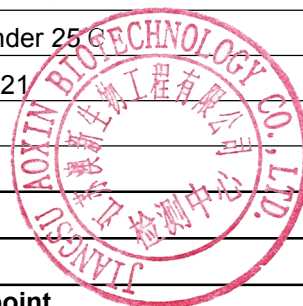




Glucosamine Sulfate Sodium Chloride –30 mesh

Batch No.	Quantity	Packaging	Test Date	Manufacture Date	Exp. Date
0320240203	500kg	25kg/drum	2024.02.06	2024.02.05	2028.02.04
ITEM		SPECIFICATION		TEST METHOD	RESULTS
Properties (physical):					
Appearance		White Crystalline, Free Flowing Powder		Visual	Complies
Odour		Odourless		Complies	Complies
Bulk Density		NLT0.85g/mL		USP2021 -- <616>	0.88g/mL
Particle Size		NLT95% through30 Mesh		USP2021 -- <811>	Complies
Analytical Properties:					
Assay (HPLC)		98.0~102.0% (on the dried basis)		USP2021 --<621>	98.56%
Identification					
A: Infrared Absorption		Meets the requirement		A: USP2021 -- <197K>	Complies
B: Tests for Chloride and Sodium		Meets the requirement		B: USP2021 -- <191>	Complies
C: Retention time in the Assay		Corresponds to the reference standard		C: USP2021 -- <621>	Complies
D: Sulfate		Meets the requirement		D :USP2021 --monograph	Complies
Transm		NLT90.0% (10.0%Water Solut.-450nm)		USP2021 -- <857>	97.3%
Specific Rotation $[\alpha]_D^{20}$		+50.0°~+55.0°		USP2021 -- <781S>	+51.63°
pH (20mg/mL.aq.sol.)		3.0~5.0		USP2021 -- <791>	4.63
Loss on Drying		NMT0.5%		USP2021 -- <731>	0.06%
Residue on Ignition		22.5%~26.0%		USP2021 -- <281>	24.82%
Chloride (Cl)		11.3% ~12.3%		USP2021 -- <541>	12.20%
Content of Sulfate		16.3%~17.3%		USP2021--monograph	16.88%
Potassium		No pronounced yellow color imparted		USP2021--monograph	Complies
Heavy Metals		NMT 10 ppm		USP2021 -- <231> II	Complies
Iron (Fe)		NMT 10 ppm		USP2021 -- <241>	Complies
Lead (Pb)		NMT 0.5 ppm		USP2021 -- <251>	0.04ppm
Arsenic (As)		NMT 1.0 ppm		USP2021 -- <211> II	Complies
Mercury (Hg)		NMT 0.1 ppm		USP2021 -- <261>	0.01ppm
Cadmium (Cd)		NMT 0.5 ppm		GB/T 5009.15—2014	0.01ppm
Microbial:					
Total Aerobic		NMT 1,000 cfu/g		USP2021 -- <2021>	Complies
Yeast & Mold		NMT 100 cfu/g		USP2021 -- <2021>	Complies
E. Coli		Negative in 1g		USP2021 -- <2022>	Negative
Salmonella		Negative in 1g		USP2021 -- <2022>	Negative
Staphylococcus Aureus		Negative in 10g		USP2021 -- <2022>	Negative
Conclusion:		Meets USP 2021 standards			
Packaging and Storage:		Store in tight, light-resistant containers under 25°C			
Reason for Change:		Updating Specification Format to USP 2021			
Effective Date:May.27,2021		Code & Version: GSSC30/2021			
Part No.:		GSSC 01			
Prepared by:		曹芳云			
Approved by QC Dept.Manager:		许明			



***Note: Materials are not sterilized by ETO or Gamma Irradiation at any point.**

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