

# Specification of N- Acetyl- D- Glucosamine

Product: Calcium N- Acetyl- D- Glucosamine

Type: Food Grade

Package: 25KG Drum

ITEM	SPECIFICATION	TEST METHOD
<b>Properties (physical):</b>		
Appearance	White Crystalline, Free Flowing Powder	USP2021 -- <695>
Particle Size	NLT 90% through 100 Mesh	USP2021 -- <811>
As Tapped Density	NLT0.40g/ml	USP2021 -- <616>
<b>Analytical Properties:</b>		
Assay (HPLC)	98.0%~102.0% (on the dried basis)	USP2021 -- <621>
Specific Rotation ( $\alpha$ ) <sub>D</sub> <sup>20</sup>	+39.0°~+43.0°	USP2021 -- <781S>
pH (20mg/ml.aq.sol.)	6.0~8.0	USP2021 -- <791>
Loss on Drying	NMT0.5%	USP2021 -- <731>
Residue on Ignition	NMT0.1%	USP2021 -- <281>
Chloride (Cl)	NMT0.1%	USP2021 -- <221>
Melting Point	196°C~205°C	USP2021 -- <741>
Heavy Metals	NMT 10 ppm	USP2021 -- <231> II
Iron (fe)	NMT 10 ppm	USP2021 -- <241>
Lead	NMT 0.5 ppm	USP2021 -- <251>
Arsenic (As)	NMT 0.5 ppm	USP2021 -- <211> II
Cadmium	NMT 0.5 ppm	GB/T 5009.15 -- 2014
Mercury	NMT 0.1 ppm	USP2021 -- <261>
Organic volatile impurities	Meets the Requirements	USP2021 -- <467> I
<b>Microbial:</b>		
Total Aerobic	NMT 1,000 cfu/g	USP2021 -- <2021>
Yeast & Mold	NMT 100 cfu/g	USP2021 -- <2021>
E. Coli	Negative in 1g	USP2021 -- <2022>
Salmonella	Negative in 10g	USP2021 -- <2022>
Staphylococcus Aureus	Negative in 1g	USP2021 -- <2022>
Enterobacteria & other gram neg	NMT 100 cfu/g	USP2021 -- <2022>
Conclusion:	Meets USP2021 standards	

Shelf Life: 36 months

Meet USP standard