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Specification of D-Glucosamine HCl

Items	Specification
Appearance:	White crystalline free lowing powder
Taste:	Hard salty
Odor:	Characteristic
Bulk density:	Not less than 0.70g/ml
Tapped density:	Meets the requirements of USP32
Assay(HPLC):	98.0-102.0%
Identification:	Positive
Transmittance:	Not less than 90%
Specific rotation:[α] _D ²⁰	+70.00° ~ +73.00°
pH value(5% , 25℃) :	3.0~5.0
Loss on drying:	Not more than 0.5%
Residue on ignition:	Not more than 0.1%
Chloride (Cl):	16.2~16.7%
Sulfate:	Not more than 0.24%
Heavy metals:	Not more than 10ppm
Iron(Fe):	Not more than 10ppm
Lead:	Not more than 3ppm
Cadmium:	Not more than 1ppm
Arsenic:	Not more than 1ppm
Mercury:	Not more than 0.1ppm
Organic volatile impurities:	Meets the requirements of USP32
Microbial:	
Total bacterial count:	Not more than 1,000CFU/g
Yeast & moulds:	Not more than 100CFU/g
Escherichia coli:	Negative
Salmonella:	Negative
Staphylococcus aureus:	Negative
Enterobacteria & other gram negative bacteria	Not more than 100CFU/g