



CERTIFICATE OF ANALYSIS

Product Name **D-Glucosamine Hcl**

Batch Number H2008010021
Product Code HU-GHCL20
Manufacture Date October 2008
Expiry Date October 2010

Test	Specification	Test Results
Appearance	White Crystalline Powder	Conforms
Assay	98% - 102%	100.1%
Specific Rotation	+70° - +73°	+72.2°
Loss on Drying	Max 1%	0.04%
Residue on ignition	Max 0.1%	0.05%
Heavy metals	Max 10ppm	< 5ppm
Iron	Max 5ppm	< 3ppm
Arsenic	Max 3ppm	< 0.2ppm
pH Value	3.0 - 5.0	4.3
Lead	Max 0.5ppm	< 0.3ppm
Total Plate Count	Max 1000cfu/gm	< 100cfu/g
Salmonella	Negative	Negative
E.Coli	Negative	Negative
GMO Status	Non GMO	Conforms
Irradiation Status	Non Irradiated	Conforms

Copy of Certified Batch Certificate of Analysis
Hack Up Ltd

Usage subject to local laws



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