

# H & A Health Products Inc.

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## Product Specification (EU compliant)

# Regenasure® Glucosamine HCl Powder

### Product Information

Cargill REGENASURE® Glucosamine HCl is manufactured from a common, naturally occurring source. Cargill REGENASURE® Glucosamine HCl is non-shellfish, non-animal derived, is produced in accordance with current food Good Manufacturing Practices (GMPs) under a comprehensive Hazard Analysis and Critical Control Points (HACCP) program.

Cargill REGENASURE® Glucosamine HCl is manufactured to meet the monograph specifications of the United States Pharmacopoeia-National Formulary (USP-NF) for Glucosamine Hydrochloride, and is certified Kosher Pareve, Kosher for Passover, and Halal.

### Glucosamine HCl

Molecular Formula	C <sub>6</sub> H <sub>13</sub> NO <sub>5</sub> • HCl
Molecular Weight	215.63
CAS Number	66-84-2
EINECS	200-638-1

### Microbiological Analysis

Total Plate Count	<1000 cfu/g
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### Granulation

On US #80 Sieve	1% maximum
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### Product Specifications

Assay	98.0% to 102.0%
Loss on Drying	Less than 1.0%
Identification	Passes USP test
Specific Rotation	+70.0° to +73.0°
pH	3.0 to 5.0 (20 mg/mL)
Residue on Ignition	Less than 0.1%
Sulfate	Less than 0.24%
Arsenic	Less than 3 ppm
Heavy Metals (as Pb)	Less than 0.001%
Residual Solvents	Meets USP-NF requirements

### Packaging

Bag in a Box	25 Kg (55 lbs)
Bulk Bag	680 Kg (1500 lbs)

### Shelf life and Storage

Cargill Glucosamine HCl should be stored under conditions of low temperature and low humidity in airtight containers and has an expiration date of 3 years from the date of manufacture.

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