



Certificate of Analysis

Product Name: **D-Glucosamine Sulphate 2KCL**
CAS# **29031-19-4**
Starting Material **Shrimp/Crab Shell**
Carriers: **None**
Extraction Solvent(s): **Ethanol**
Country of Origin: **China**
Batch Number: **Varies**
Manufacture Date: **Varies**
Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
D-Glucosamine Sulfate 2KCL (HPLC)	98-102%	98.63%
Arsenic	≤3 ppm	<0.0500 ppm
Lead	≤3 ppm	<0.0250 ppm
Cadmium	≤1 ppm	<0.0250 ppm
Mercury	≤0.1 ppm	<0.0250 ppm
Aerobic Plate Count	≤1000 cfu/g	Not Detected
Yeast & Mold	≤100 cfu/g	Not Detected
Coliforms	Report Only	Not Detected
<i>E. Coli</i>	Negative	Absent
<i>Salmonella</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White Crystal Powder	Conforms
Identification	Meets the requirements	Conforms
Specific Rotation	+47.0°~+53.0°	+51.3°
pH	3.0~5.0	4.6
Loss on Drying	≤1.0%	0.31%
Particle Size	100% pass through 40 mesh	Conforms
Residues on Ignition	26.5%~31.0%	27.9%
Content of Sulfate	15.5%~16.5%	Conforms
Solubility	Easily soluble in water; insoluble in ethanol	Conforms
Conclusion (Manufacturer):	This product conforms to USP40 standards	

Additional Information: Allergen (Shellfish) || BSE/TSE Free || Gluten Free

GMO Statement Non-GMO

Storage Conditions: **Keep in sealed container under 25°C.**
Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Linda Heatley / Candace Gibson / Nicole Rammage

(This document was produced electronically and is valid without signature.)