

Description:

Glucosamine Sulfate 2KCl Low Lead

Lot #:

509K1607047

Standard
Result *
Physical Properties

Appearance	White free flowing powder	Complies
Bulk Density Loose (gm/cc)	>= 0.70 <= 0.95	0.77
Particle size thru # 30 (%)	= 100	100

Analytical

Assay (Glucosamine Sulfate 2KCl, Dry Basis, %)	>= 98.0 <= 102.0	99.9
Assay (Glucosamine, Dry Basis, %)	>= 58.0	59.1
Identification A	Meets the requirements	Complies
Identification B	Meets the requirements	Complies
Identification C	Meets the requirements	Complies
Identification D	Meets the requirements	Complies
Loss on drying (%)	<= 1.0	0.1
pH	>= 3.0 <= 5.0	4.4
Specific rotation (deg)	>= +47.0 <= +53.0	+51.5
ROI (%)	>= 26.5 <= 31.0	27.8
Sodium	Meets the requirements	Complies
Sulfate (%)	>= 15.5 <= 16.5	15.9
Lead (ppm)	<= 0.25	<0.25
Arsenic (ppm)	<= 1	<1
Cadmium (ppm)	<= 0.5	<0.5
Mercury (ppm)	<= 0.2	<0.2

Microbiological

APC (CFU/gm)	<= 1000	490
Yeast/mold (CFU/gm)	<= 100	40
E. coli (CFU/gm)	Negative	Complies
Salmonella (25 gm)	Negative	Complies

Storage Conditions

Manufacture date	July 10, 2016
Expiration date	July 10, 2019
Storage	Cool dry place sealed in light resistant container
Manufactured by	Plant # 509
Country of origin	China
Revision #	Rev 6 7/20/2016

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Approved By: Warren K. Majerus Date: 1/30/2017
Warren K. Majerus
VP Quality Assurance

* Test results based on information supplied by the manufacturer, unless otherwise noted.

** Based on third party testing lab results.

*** Based on results from Pharmore's sampling protocol.

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