



# MTC Industries, Inc.

Pharmaceuticals, Nutraceuticals and Biochemicals

12/19/19  
R06602  
R10384

## CERTIFICATE OF ANALYSIS

<b>PRODUCT NAME:</b>	D-Glucosamine Sulfate Potassium (2KCL)	<b>COUNTRY OF ORIGIN:</b>	CHINA
<b>MANUFACTURING DATE:</b>	03/07/2019	<b>EXPIRATION DATE:</b>	03/06/2021
<b>BATCH NO:</b>	M-KP-1903004	<b>BATCH SIZE:</b>	1000kg

Test Item	Specification	Test Results
Appearance	White grain	Conformed
Specific rotation	+46.5°—+51.0°	+49.9°
Content	NLT 95.0%	96.9%
Loss on Drying	≤2.0%	0.48%
Residue on Ignition	25.5% to 29.5%	28.4%
pH	3.5-5.0	4.04
Chloride	11.1% to 12.8%	12.2%
PVP K30	≤ 5.0%	< 5.0%
Mesh size	100 through 20 mesh	100 through 20 mesh
Arsenic	≤ 0.5ppm	<0.5ppm
Lead	≤ 0.5ppm	<0.5ppm
Mercury	≤ 0.5ppm	<0.5ppm
Cadmium	≤ 0.5ppm	<0.5ppm
Heavy metals	≤ 10ppm	<10ppm
Total Plate Count	≤1000cfu/g	50cfu/g
Yeast and Molds	≤100cfu/g	10cfu/g
E. Coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus Aureus	Negative	Negative

**Packing and Storage:** Store in tight, light resistant containers, avoid exposure to direct sunlight, moisture, excessive heat.

**Conclusion:** Everything is in compliance

The information contained herein is to the best of our knowledge correct. The data outlined and the statements made are intended only as source of information. No warranties expressed or implied are made on the basis of this information. It is suggested that you evaluate the product on a laboratory scale prior to use in a finished product. The information contained herein should not be construed as permission for violation of patent rights.

COA Prepared by: Approved Zoe

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