



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

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PANTHENOL PRO-VITAMIN B-5 POWDER

CERTIFICATE OF ANALYSIS

LOT: BN250929/RM

Manufacture Date: September 29,2023

Expiration Date: September 28,2025

QA Signature: Steven Konert

Specification	Parameter	Result
Appearance	White, crystalline powder. With slight characteristic odor.	White Crystalline Powder
Color Reaction 1	Added with copper sulfate test solution,which should be deep blue.	Conforms
Color Reaction 2	Added ferric chloride test solution to the test solution,which should be Purplish-red	Conforms
Infrared Identification	he IR spectrum of sample correspond to that of reference standard	Conforms
Optical Rotation	-0.05° to +0.05°	0.00°
Loss on drying	≤0.5%	0.1%
Residue On Ignition	≤0.1%	0.04%
Heavy Metals	≤10 ppm	Conforms
3-Aminopropanol	≤0.1%	0.008%
Ethyl Acetate	≤0.5%	0.009%
Melting Range	64.5~68.5 °C	64.9~67.5 °C
Assay	99.0% - 102.0%	99.4%
Microbiological test	Total number of bacteria ≤ 1000cfu/g	< 10cfu/g
Storage	Store in a cool,dry place away from Moisture, Light	
Conclusion	Sample Qualified	

Shelf life is guaranteed for two years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on the Buyer's purchase order or any document or instrument supplied by the Buyer.