



杭州鑫富科技有限公司

Hangzhou Xinfu Science & Technology Co., Ltd.

QR/04-5.2.13-13-A0

**CERTIFICATE OF ANALYSIS**

No. BG2024012015113

Product Name	D-Panthenol	Production Quantity	5,000 kg
Specification	USP-NF Official as of 1-May-2020, Q/XF 001-2022 (B)	Shipped Quantity	2620 kg
Lot #	24011801	Package	10kg/pail
Manufacturing Date	January 18, 2024	Expiry Date	January 17, 2027

Item	Specification	Result
Appearance	A colourless or slightly yellowish, viscous hygroscopic liquid, of slightly characteristic odor.	Conforms
Assay (on the anhydrous basis), %	98.0~102.0	99.4
Limit of Aminopropanol, %	≤1.0	0.6
Optical Rotation, Specific Rotation (on the anhydrous basis), °	+29.0~+31.5	+30.6
Refractive Index at 20°C	1.495~1.502	1.500
Water Determination, %	≤1.0	0.3
ΔpH (5%)	≤10.5	10.1
ΔHeavy Metals (as Pb), %	≤0.001	Conforms
*Identification A. Spectroscopic Identification Tests, Infrared Spectroscopy.	The infrared spectrum of the sample compares qualitatively to the infrared spectrum of the standard	Conforms
*Identification B	Proceed according to procedures, a deep blue color develops.	Conforms
*Identification C	Proceed according to procedures, a purplish red color develops.	Conforms
*Residue on Ignition, %	≤0.1	Conforms



Remark: Items marked with \* are tested periodically randomly.  
Items marked with Δ are internal control items.

Conclusion Approved

Compiled by: 马丹良 Re-checked by: 陈燕燕 Signed by: 陈江桥  
Date: 2024-01-22 Date: 2024-01-22 Date: 2024-01-22

ORDER NO. :EB1071437

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