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QR/04-5.2.13-13-A0

杭州鑫富科技有限公司
Hangzhou Xinfu Science & Technology Co., Ltd.

CERTIFICATE OF ANALYSIS

No. BG2023110112834

Product Name	D-Calcium pantothenate	Production Quantity	2,700 kg
Specification	USP-NF Official as of 1-May-2020	Shipped Quantity	
Lot #	23110104	Package	25kg/Carton
Manufacturing Date	November 1, 2023	Expiry Date	October 31, 2026

Item	Specification	Result
Appearance	White powder	Conforms
Identification C. Optical Rotation, Specific Rotation, (on the dried basis), °	+25.0~+27.5	+27.0
Loss on Drying, %	≤5.0	2.4
Content of Calcium (on the dried basis), %	8.2~8.6	8.3
Residual Solvent(Methanol), %	≤0.3	0.05
Assay(on the dried basis), %	98.0~102.0	98.9
ΔpH	---	7.6
ΔBulk Density, g/mL	---	0.72
*Alkalinity	No pink color is produced within 5s	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. Identification Tests-General, Calcium.	A 50-mg/ml solution meets the requirements	Conforms
*ΔLead, mg/kg	≤0.5	Conforms
*ΔCadmium, mg/kg	≤0.5	Conforms
*ΔArsenic, mg/kg	≤1.0	Conforms
*ΔMercury, mg/kg	≤0.10	Conforms



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

Conclusion	Approved
Compiled by: 程 倩	Re-checked by: 陈 燕 燕
Date: 2023-11-03	Date: 2023-11-03
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