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CERTIFICATE OF ANALYSIS

Product Name: D-Calcium Pantothenate Standard: USP40

Batch Number: 20230812 Batch Quantity: 1000KG

Manufacture Date: 2023-08-12 Expiry Date: 2023-08-11

ITEMS	SPECIFICATION	RESULTS
Appearance	White to off-white fine powder	Conform
Assay(HPLC)	98.0%~102.0%	99.3%
Content of calcium	8.2%~8.6%	8.4%
Infrared Identification	A: Infrared absorption (197k) B: A solution (1in 20) responds to the tests for calcium	Conform Conform
Calcium salt identification	Positive response	Conform
Specific optical rotation	+25.0 °~ +27.5 °	+26.45 °
Alkalinity	No pink color is produced within 5 seconds	Conform
Loss on drying	5.0% Max	4.5%
Heavy metals	20ppm Max	<20
Carbinol	0.3% Max	<0.3%
Aminopropanoic acid	1.0% Max	Conform
Total plate count	1000cfu/g Max	Conforms
Molds and Yeast	100cfu/g Max	Conforms
E.coli	Negative	Conforms
Salmonella	Negative	Conforms
Conclusion	The product conforms to standard of USP40.	
Storage	Store in cool & dry place, keep away from strong light and heat.	

Shawn Rick Whip
Analyst Approved Header of QC

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