

CERTIFICATE OF ANALYSIS

PRODUCT NAME: D-CALCIUM PANTOTHENATE

BATCH NUMBER: 2016072302

QUANTITY: 500KG

REPORTING DATE: JULY.24,2016

MANUFACTURE DATE: JULY.23,2016

EXPIRY DATE: JULY.22,2019

SPECIFICATION: USP39

ITEM	SPECIFICATION	RESULT
Appearance	White powder	Conforms
Identification:		
A: Infrared Absorption <197K>	Concordant with the reference spectrum	Conforms
B: A solution(1 in 20) responds to the tests for Calcium	Conform to USP39	Conforms
Specific optical rotation	+25.0° ~ +27.5°	+26.10°
Alkalinity	No pink color is produced within 5 seconds	Conforms
Loss on drying	NMT 5.0%	4.50%
Heavy metals	NMT 20ppm	Conform
Ordinary impurities	NMT 1.0%	Conform
Nitrogen determination	5.7%~6.0%	5.72%
Content of Calcium	8.2%~8.6%	8.31%
Total Plate count	<1000cfu/g	Conform
Mold and Yeast	<100cfu/g	Conform
Assay	98%~101%	99.00%
Conclusion: The batch complies with the specification of USP39		

ANALYST: WangXuan

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