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## CERTIFICATE OF ANALYSIS

Product:	D-Calcium Pantothenate	Product Lot No.:	116D0522
Batch No.:	15052210	Manu. Date:	May 22, 2015
Country of Origin:	China	Expiry Date:	Nov 21, 2018

Item	Test Method	Standard	Result
Appearance	USP	White Powder	White Powder
Infrared Identification	USP	Meets standard graph	Meets standard graph
Identification of Calcium	USP	Meets all requirements	Meets all requirements
Specific Rotation (Dried Basis)	USP	+25.0° to +27.5°	+26.6°
Alkalinity	USP	No pink reaction within 5 seconds	Conform
Loss on Drying	USP (105° of 3hr)	≤5.0%	2.2%
<b>Heavy Metals</b>	AA or ICP-MS	≤ 0.002 %	Conform
Arsenic Assay	AA or ICP-MS	≤1.0ppm	≤1.0ppm
Cadmium Assay	AA or ICP-MS	≤1.0ppm	≤1.0ppm
Lead Assay	AA or ICP-MS	≤0.5ppm	≤0.5ppm
Mercury	AA or ICP-MS	≤0.1ppm	≤0.1ppm
Ordinary Impurities	USP	≤1.0 %	Conform
Residual Solvent (Methanol)	USP	≤0.3%	0.06%
Nitrogen Content	USP	5.7-6.0%	5.8%
Calcium Content	USP	8.2-8.6%	8.3%
Assay of Calcium Pantothenate (On Dried Basis)	CURRENT EP STANDARD	98.0-101.0%	99.4%
<b>Microbiological Test</b>			
Total Plate Count	USP	<1,000	<1,000
Yeast & Mold	USP	<100	<100
Salmonella	USP	Negative	Negative
E. Coli	USP	Negative	Negative
Staphylococcus Aureus	USP	Negative	Negative
Storage	Store in an air tight container in a dry place, protected from light.		
Conclusion	Complies with current USP and FCC. Calcium Pantothenate is manufactured in China and all raw materials originated from China. Calcium Pantothenate complies with Proposition 65. This product does not contain Melamine and any of its byproducts.		

\*This Certificate of Analysis is reflective of our supplier and /or independent laboratory.