

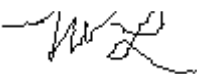


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Certificate of Analysis

Product:	D-Calcium Pantothenate	Reference Standard:	USP
CAS#	137-08-6	Pack Size:	25kg
Batch/Lot#	ECUHB47601	Country of Origin:	Japan
Manufacture Date:	February 06, 2010	Expiration Date:	February 05, 2013

Item	Specification	Result
Appearance	White powder (USP)	Conforms
Test for Calcium	Calcium test (+) (USP)	Conforms
Specific Rotation	+25.0° ~ +27.5°	+26.9°
Alkalinity	No Pink Color Produced (USP)	Conforms
Loss on Drying	≤ 5% (USP)	2.1%
Heavy Metals	≤ 0.002% (USP)	Passed
Ordinary Impurities	NMT 1.0% (USP)	Passed
Nitrogen Content	5.7% ~ 6.0% (USP)	5.8%
Content of Calcium	8.2% ~ 8.6% (USP)	8.4%
-Voluntary Specification-		
Assay (Potential Titration)	98.0% ~ 101.0% (EP)	100.3%
pH (10% soln)	6.8 ~8.0 (EP)	7.3
Chloride	Not more than 200ppm (EP)	Passed
Alkaloid	No turidity is produced (JP)	Conform
Calculated "As Pantothenic Acid"	Theretical content value for D-Pantothenic Acid	91.9%

Data Prepared by: 

Date: February 22, 2010