



Specification

Calcium D-Pantothenate USP

Catalog Number:	CP1001
CAS Number:	137-08-6
Synonym(s):	(R)-(+)-N-(2,4-Dihydroxy-3,3-dimethyl-1-oxobutyl)-β-alanine hemicalcium salt, D-Pantothenic acid hemicalcium salt, Calcium D-pantothenate, Vitamin B ₅
Molecular Formula:	C ₁₈ H ₃₂ CaN ₂ O ₁₀
Molecular Weight:	476.53
Storage:	2°C – 15°C
Retest Period:	Three years from date of manufacture.

Test	Specification
Appearance	White fine granular powder
Assay (Dry Basis) ¹	98% - 101%
Identification ¹	A: Infrared absorption B: Tests for calcium
Specific Rotation (c=5, H ₂ O) ¹	+25.0° to +27.5°
Content of Calcium ¹	8.2 – 8.6%
Moisture (LOD) ¹	≤ 5.0%
Solubility (50mg/ml)	Clear & colorless, < 2 minutes
Alkalinity ¹	No pink color is produced within 5 seconds.
Heavy Metal ¹	≤ 10ppm
Arsenic	≤ 1ppm
Cadmium	≤ 1ppm
Lead	≤ 1ppm
Mercury	≤ 0.1ppm
Ordinary Impurities	≤ 1.0%
Residual Solvents	≤ 3,000ppm (Methanol)
Residue on Ignition	≤ 1.00%
Calcium	8.2% - 8.6%
Nitrogen	5.7% - 6.0%
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	≤ 10cfu/g
<i>E. coli</i>	Negative
<i>S. aureus</i>	Negative
<i>Salmonella</i>	Negative
All batches meet the specifications for the USP39 standard.	

Approved:

Date: March 9, 2018



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