



Certificate of Analysis

Calcium D-Pantothenate USP

Catalog Number: CP1001
Lot Number: 1003802
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, Vitamin B₅
Molecular Formula: C₁₈H₃₂CaN₂O₁₀
Molecular Weight: 476.53
Storage: 2°C – 15°C
Date of Manufacture: January 26, 2018
Retest Date: January 28, 2021

Test	Specification	Result
Appearance	White fine granular powder	Conforms
Assay (Dry Basis) ¹	98% - 101%	99.1%
Identifications ¹ A: Infrared absorption B: Tests for calcium C: Specific Rotation (c=5, H ₂ O)	To match reference spectra To meet requirements +25.0° to +27.5°	Conforms Conforms +27.0°
Content of Calcium ¹	8.2% - 8.6%	8.34%
Nitrogen	5.7% - 6.0%	5.76%
Moisture (LOD) ¹	≤ 5.0%	3.6%
Residue on Ignition	≤ 1.0%	< 1.0%
Alkalinity ¹	No pink color within 5 seconds.	Conforms
Heavy Metals ¹	≤ 20ppm	< 20ppm
Arsenic	≤ 1ppm	< 1ppm
Cadmium	≤ 1ppm	< 1ppm
Lead	≤ 1ppm	< 1ppm
Mercury	≤ 0.1ppm	< 0.1ppm
Ordinary Impurities	≤ 1.0%	< 1.0%
Residual Solvents	≤ 3,000ppm (Methanol)	< 3,000ppm
Total Plate Count	≤ 1000cfu/g	< 1000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	≤ 10cfu/g	< 10cfu/g
<i>E. coli</i>	Negative	Negative
<i>S. aureus</i>	Negative	Negative

¹This lot meets all specifications for the USP39 standard.

Approved by:

Date: October 3, 2018



Gojira Fine Chemicals, LLC

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