

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: D-Pantothenic Acid Calcium Salt, USP
Catalog Number: 101228
Lot: YC0415

Formula: $C_{18}H_{32}N_2O_{10}Ca$

CAS #: 137-08-6

Physical Description: Fine White Granular Powder

Formula Weight: 476.53

Storage: 15 - 30°C

Test	Specification	Result
Identity Test A	Positive	Positive
Identity Test B	Positive	Positive
Alkalinity	No pink color is produced within 5s	No pink color is produced within 5s
Specific Rotation (c=5, water)	+25.0 to + 27.5°	+26.5°
Loss on Drying	≤5.0%	2.20%
Assay (Dried basis)	98.0% - 102.0%	98.40%
Calcium Content (dry basis)	8.2 - 8.6%	8.32%

Total plate count: <1000 cfu/g

Mold and yeast: <100 cfu/g

Staph aureus: Absent

Salmonella: Absent

E. coli: Absent

Heavy Metals: Not more than 20 ppm

Lead: Not more than 2 ppm

Arsenic: Not more than 1 ppm

Mercury: Not more than 0.1 ppm

Cadmium: Not more than 1 ppm

Nitrogen determination: 5.74%

Recommended Retest Date (MM/DD/YYYY): 01/06/2025

A handwritten signature in black ink, appearing to read 'F. An', is positioned at the top left of the document.

04/20/2022 - Fengqi An
MP Biomedicals, LLC.
Life Science QC Supervisor

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