

Certificate of Analysis

Product Name	D-Pantothenic acid
Catalog No.	V29278
Batch No.	V2927801

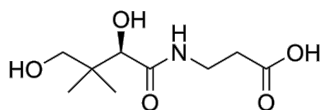
1. Physical and Chemical Properties

Appearance	White powder
Molecular Formula	C ₉ H ₁₇ NO ₅
Molecular Weight	219.24
Purity	Food grade Content ≥ 98%
CAS No.	79-83-4
Production Date	2025/01/07

2. Analytical Data

Test Item	Specification	Result
Apperance	White powder	White powder
Odor	Odorless	Odorless
Calcium D-pantothenate content (on dry basis)	97.0% ~ 103.0%	98.2%
Calcium content (on dry basis)	8.2% ~ 8.6%	8.38%
Specific optical rotation	+25.0° ~ +27.5°	+26.8°
pH (50 g/L aqueous solution)	6.8 ~ 8.0	7.3
Alkaloid test	Complies	Conforms to specification
Alkalinity (50 g/L)	Complies	Conforms to specification
Loss on drying	≤ 5.0%	2.2%
Chloride (as Cl)	≤ 200 mg/kg	< 200 mg/kg
β-Alanine	≤ 0.5%	< 0.5%
Lead (Pb)	< 2.0 mg/kg	Not detected
Total arsenic (as As)	< 0.5 mg/kg	< 0.5 mg/kg
Aerobic bacterial count	< 1000 cfu/g	20 cfu/g
Mold & yeast count	< 100 cfu/g	< 10 cfu/g

3. Structure



4. Storage Condition

Storage Condition	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Products are for research use only • Not for human or veterinary use

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