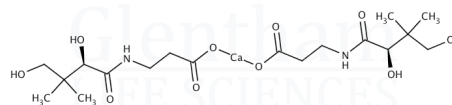


Certificate of Analysis

Product Name	D-Pantothenic acid calcium salt, USP grade
Glentham Code	GE9583
CAS Number	137-08-6
EINECS	205-278-9
MDL Number	MFCD00002766
Additional CAS	331748-07-3 (xH ₂ O)
Additional CAS	63409-48-3 (DL-)
Batch Number	079HZB



Molecular Weight	476.54
Molecular Formula	C ₁₈ H ₃₂ CaN ₂ O ₁₀
Storage Temp.	+20°C

Property	Specification	Batch 079HZB
Physical Description	White powder	White powder
Identification	To pass tests A (IR); B (Calcium)	Conforms
Calcium (Ca)	8.2 - 8.6 %	8.3%
Nitrogen (N)	5.7 - 6.0 %	Conforms
Heavy Metals	≤ 20ppm	Conforms
Organic Impurities	≤ 1.0%	0.39%
Specific Optical Rotation	+25.0 - +27.5 ° (c=5, water)	+26.8°
Alkalinity	To pass test	Conforms
Loss on Drying	≤ 5.0% (105°C, 3h)	1.8%
Assay	98.0 - 102.0 % (dried basis)	99.3%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2020-12-30
Re-Test Date	2030-06-18

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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