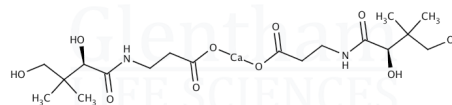


Certificate of Analysis

Product Name Calcium pantothenate, Ph. Eur. grade
Glenthams Code GE9302
CAS Number 137-08-6
EINECS 205-278-9
MDL Number MFCD00002766
Additional CAS 331748-07-3 (xH₂O)
Additional CAS 63409-48-3 (DL-)
Batch Number 7410FX



Molecular Weight 476.54
Molecular Formula C₁₈H₃₂CaN₂O₁₀
Storage Temp. +20°C

Property	Specification	Batch 7410FX
Physical Description	White or almost white powder	Conforms
Specific Optical Rotation	+25.5 - +27.5 ° (c=5, water)	+27.3°
Identification (TLC)	To pass test	Conforms
Identification	To pass tests C, D	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
pH (5% in water)	6.8 - 8.0	7.2
3-Aminopropionic acid	≤ 0.5%	Conforms
Chlorides	≤ 200ppm	Conforms
Loss on Drying	≤ 3.0% (105°C)	2.31%
Assay (Titration)	98.0 - 101.0 % (dried substance)	99.5%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms to Ph. Eur.

Specification Version v1.0
Manufacture Date 2018-04-11
Re-Test Date 2026-11-15

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

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