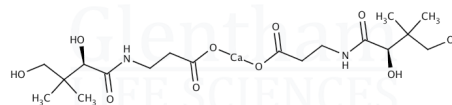


## Certificate of Analysis

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 (xH<sub>2</sub>O)  
Additional CAS 63409-48-3 (DL-)  
Batch Number 7410FX



Molecular Weight 476.54  
Molecular Formula C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub>  
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](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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