

## Certificate of Analysis

Date of Testing: 2022-07-18 16:58:37  
Date of Next Testing: 2026-07-17 16:58:37  
Product Name: **D-calcium pantothenate**  
CAS Number: 137-08-6  
Specifications & Purity: 98%  
Lot #: G2213474  
SKU #: **C110508**  
**Analysis: 091811**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)(calcd.on dried substance)	98-102 (%)	98.73 %
Loss on drying	0-5 (%)	1.27 %
Heavy metal (as Pb)	0-0.002 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in H}_2\text{O})$ (after drying)	25-28.5 (°)	25.66 °
Appearance (C110508)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O	Almost transparency	almost transparency



John Su  
QA & QC Manager