

## Certificate of Analysis

Date of Testing: 2024-05-21 11:42:29  
Date of Next Testing: 2028-05-20 11:42:29  
Product Name: **D-calcium pantothenate**  
CAS Number: 137-08-6  
Specifications & Purity: analytical standard  
Lot #: E2415044  
SKU #: **C293043**  
Version: **1**  
Analysis #: **236421**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.99000 %
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in H}_2\text{O})}$ (after drying)	25-28.5(°)	25.58°
Appearance(C293043)	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 Water	almost transparency	almost transparency



John Su  
QA & QC Manager