

## Certificate of Analysis

Date of Testing: 2025-01-13 17:08:55  
Date of Next Testing: 2027-01-03 17:08:55  
Product Name: **D-Panthenol**  
CAS Number: 81-13-0  
Specifications & Purity: analytical standard  
Lot #: D2301807  
SKU #: **P107367**  
Version: **0**  
Analysis #: **462147**

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=5 in H <sub>2</sub> O)	29-31.5 (°)	29.62°
Refractive index n <sub>20</sub> /D	1.495-1.502	1.50
Purity(HPLC)	99-100 (%)	99.71800 %
Appearance (P107367)	Colorless to pale yellow liquid or solid	Colorless to pale yellow liquid or solid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager