

Certificate of Analysis

Date of Testing: 2023-02-24 14:25:45

Date of Next Testing: 2027-02-23 14:25:45

Product Name: **D-Panthenol**

CAS Number: 81-13-0

Specifications & Purity: $\geq 98\%$

Lot #: B2307375

SKU #: **P107368**

Version: **1**

Analysis #: **151660**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.48 %
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in } H_2O)$	29-32 (°)	29.02 °
Purity(HPLC area)	98-100 (%)	98.71 %
Refractive index $n_{20/D}$	1.498-1.5	1.50
Appearance (P107368)	Colorless to Yellow Viscous Liquid or solid	Colorless to Yellow Viscous Liquid or solid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency



John Su
QA & QC Manager