

Certificate of Analysis

Date of Testing: 2023-12-06 09:59:49

Date of Next Testing: 2027-12-05 09:59:49

Product Name: **D-Panthenol**

CAS Number: 81-13-0

Specifications & Purity: 98%

Lot #: K2328056

SKU #: **P107368**

Analysis: **301723**

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

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.31 %
Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in H}_2\text{O})$	29-32 (°)	30.37 °
Refractive index $n_{20/D}$	1.498-1.5	1.50
Purity(HPLC area)	98-100 (%)	98.72 %
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