

Certificate of Analysis

Date of Testing: 2023-05-06 15:35:44

Date of Next Testing: 2027-05-05 15:35:44

Product Name: **DL-Panthenol**

CAS Number: 16485-10-2

Specifications & Purity: 99%

Lot #: I1508049

SKU #: **P117668**

Analysis: **218511**

Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-20 (ppm)	14.50 ppm
Refractive index n _{20/D}	1.495-1.502	1.50
Specific Rotation [α] _{20/D} (c=5 in H ₂ O)	-0.05-0.05 (°)	0.05 °
Melting point	65-68 (°C)	65.90000 °C
Sulfate(SO ₄ ²⁻)	0-0.1 (%)	0.10 %
Purity(total nitrogen)	99-100 (%)	99.30 %
Appearance (P117668)	White or off-white powder	White or off-white powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Solution transparent	pass	Pass



John Su
QA & QC Manager