

Certificate of Analysis

Date of Testing: 2023-06-20 13:31:40

Date of Next Testing: 2027-06-19 13:31:40

Product Name: **DL-Panthenol**

CAS Number: 16485-10-2

Specifications & Purity: 99%

Lot #: F2310505

SKU #: **P117668**

Analysis: **225994**

Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Melting point	64-70 (°C)	68.38000 °C
Purity(HPLC area)	99-100 (%)	99.63 %
Specific Rotation [α] ₂₀ /D(c=5 in H ₂ O)	-0.05-0.05 (°)	-0.05 °
Appearance (P117668)	White or off-white powder	White or off-white powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager