

## Certificate of Analysis

Date: 23 August, 2022

**Product:** DL-Panthenol

**Lot/Batch Number:** PNTH220315

**Retest Date:** October 2023

**Manufacture Date:** October, 2021

**Commercial Expiry:** N/A

PROPERTIES	SPECIFICATIONS	RESULTS
Melting Range	64.5 to 68.5 C	65.2 to 67.2 C
Aminopropanol	≤0.1%	0.02%
Loss on drying	≤0.5%	0.2%
Residue on Ignition	≤0.1%	0.02
Assay	99.0 to 102.0%	99.9%
Heavy Metals	≤10ppm	PASS
Residual Solvent	≤0.5%	PASS
Identification	1. IR 2. Cupric sulfate TS 3. Ferric chloride TS	PASS PASS PASS
Appearance	Well-dispersed white powder	PASS
Optical Rotation	-0.05 ~ +0.05	PASS

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