

## Certificate of Analysis

Date: December 14, 2022

**Product:** DL-Panthenol

**Lot/Batch Number:** PNT221210

**Retest Date:** October 2023

**Manufacture Date:** October 2021

**Commercial Expiry:** N/A

PROPERTIES	SPECIFICATIONS	RESULTS
Melting Range °C	64.5 – 68.5	65.2 – 67.3 2
Aminopropanol %	≤ 0.1	0.02
Loss on drying %	≤ 0.5	0.2
Residue on Ignition %	≤ 0.1	0.02
Assay %	99.0 – 102.0	99.9
Heavy Metals (ppm)	≤ 10	PASS
Residual Solvent %	≤ 0.5	PASS
Identification	1. IR	PASS
	2. Cupric sulfate TS	PASS
	3. Ferric chloride TS	PASS
Appearance	Well-dispersed white powder	PASS
Optical Rotation	-0.05 ~ +0.05	PASS

### Disclaimer & Caution

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