

Certificate of Analysis

Date: January 31, 2023

Product: DL-Panthenol

Lot/Batch Number: PNT221006

Retest Date: October 2023

Manufacture Date: October 2021

Commercial Expiry: N/A

PROPERTIES	SPECIFICATIONS	RESULTS
Melting Range °C	64.5 – 68.5	65.2 – 67.2
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

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