

Certificate of Analysis

Product: DL Panthenol 100% Package Size: 55.115 LB PAIL Certification Date: Manufacture Date: Recertification Date: September 16, 2024 July 10, 2024 July 09, 2026

KCC Number: 300337

Lot Number: KC240710

THE FOLLOWING VALUES HAVE BEEN PROVIDED BY THE MANUFACTURER OF THIS PRODUCT.

Characteristic	Specification	Result
Appearance	Well-dispersed white powder	Conforms
Identification Infrared absorption	Concordant with the reference spectrum	Conforms
Assav	99.0% ~ 102.0%	99.8%
Residue on ignition	Max 0.1%	0.02%
Aminopropanol	Max 0.1%	0.02%
Melting point	64.5 ~ 68.5'C	64.7 ~ 66.7'C
Optical rotation	-0.05 ~+ 0.05'	Conforms
Loss on drying	Max 0.5%	0.3%
Heavy metals	Max 10.0ppm	<10.0ppm
Residue solvent (class 3)	Max 0.5%	<0.5%

Quality Approved September 16, 2024

Daisy M. Marseille

Daisy M. Marseille Quality Assurance Manager

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