



CERTIFICATE OF ANALYSIS

Material Name: DL-Panthenol,USP

Batch No: 19082801

Quantity: 2160KGS

Reference Standard: USP

Date of Manufacturing: 08/21/2019

Date of Expiry: 08/21/2022

Item	Standard	Result
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1.Appearance:	White powder	White powder
2.Assay (m/m, on dried basis):	99.0~102%	99.0%
3.Melting Point:	64.5 ^o ~68.5 ^o	64.5 ^o ~65.5 ^o
4.Specific Rotation(on dried basis):	-0.05 ^o ~+0.05 ^o	0 ^o
5.Loss on Drying:	≤0.5%	0.20%
6.Residue on Ignition	≤0.1%	Conforms
7.Limit of Aminopropanol m/m	≤0.1%	0.01%
8.Identification:	Normal reaction	Normal reaction
9.Organic Volatile Impurities:	Meets the requirements	Meets the requirements
10. Heavy Metals(As pb) %:	<0.001	Conforms

Conclusion:Approved to USP
