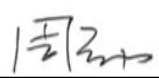


# XINFAPHARMACEUTICAL CO.,LTD

## CERTIFICATE OF ANALYSIS

R120609—USPC06—01

ARTICLE	D-Panthenol/ Dexpanthenol	TEST STANDARD	EP10.4
LOT NO.	220615F061		

ITEM	SPECIFICATION	RESULT
Appearance	A Colorless or slightly yellowish, viscous hygroscopic liquid(may crystallized on storage)	conforms
Solubility	Very soluble in water, freely soluble in ethanol(96 per cent) and practically insoluble in heptane	conforms
Identification		
Test for Specific Optical Rotation	Complies with the test for specific optical rotation	conforms
Infrared Absorption	IR spectrum	conforms
TLC	TLC Chromatogram	conforms
Appearance of Solution	clear and not more intensely coloured than reference solution B6	conforms
pH	not more than 10.5	10.1
Specific Optical Rotation	+29.0~+32.0°	+30.8°
Impurity A and other amino compounds	not more than 1.0%	conforms
Related substances		
Impurity C	not more than 1.0%	conforms
Impurity B	not more than 0.5%	conforms
Unspecified impurities(for each impurity)	not more than 0.10%	conforms
Total	not more than 2.0%	conforms
Water(Karl Fischer Method)	not more than 1.0%	0.12%
Sulfated ash	not more than 0.1%	0.1%
Assay	98.0%~ 101.0% (Titration)	99.4%
Additional tests:		
Heavy metals	not more than 20ppm	conforms
Formaldehyde	not more than 5ppm	4.7PPM
total aerobic microbial count (TAMC)	not more than 100cfu/g	conforms
total combined yeasts (TYMC)	not more than 10cfu/g	conforms
<p>We also hereby certify that the above-mentioned D-Panthenol/ Dexpanthenol meets the quality requirements of the current EP monograph for Dexpanthenol.</p> <p>Manufactured and tested by XinFa Pharmaceutical Co., Ltd., NO.1 TONGXING ROAD, KENLI COUNTY, DONGYING CITY, SHANDONG PROVINCE, CHINA.</p>		
DATE OF PRODUCTION	JUNE 15,2022	Lishan Zhou 
DATE OF ANALYSIS	JUNE 15,2022	
EXPIRY DATE	JUNE 14,2024	