

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	Provitamin B5 (d-panthenol) 99,5%
2. INCI Name	D-panthenol, water
3. CAS Number	81-13-0, 7732-18-5
4. Batch Number & Mfg. Date	As mentioned on Label
5. Date Of Exp	3 Years from Mfg
6. Date of Analysis	22-02-2024

Analytical Tests	Specifications	Results
Appearance	Clear liquid	Clear liquid
Color	Colorless – slightly yellow	Colorless/slightly yellow
Identity (HPLC & rotation)	Confirm (HPLC & rotation)	CORRESPONDS
Specific Rotation	+29.0 - +32.0 deg	31.2 deg
D-Panthenol Content	Min. 99%	99.6%
Sulphated ash	0 – 0.1 %	CORRESPONDS
Heavy Metals	0 – 10 ppm	CORRESPONDS
Free Amines as Aminopropanol	0 – 1 %	0.5%

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use