

CERTIFICATE OF ANALYSIS

Heavy

Product Name	Provitamin B5 (d-panthenol)
INCI Name	D-panthenol, water
CAS#	81-13-0, 7732-18-5
Lot Number	PA2505024
Manufacture Date	05/2025
Re-test Date	05/2027

Analytical Tests	Specifications	Results
Appearance	Clear, viscous, somewhat hygroscopic liquid: Some crystallization may occur on standing	Clear, viscous liquid
Solubility	Freely soluble in water, in alcohol, in methanol, and in propylene glycol; soluble in chloroform and in ether; slightly soluble in glycerin	CONFORMS
Identification of Blue vitriol*	Deep blue	The solution is deep blue
Identification of Iron trichloride*	Purplish red	The solution is purplish red
Identification of IR	Conform to standard spectrum	CONFORMS
Assay	98.0 - 102.0	98.6
Residue on ignition	<1.0	0.04
Related substances (Aminopropanol)	<1.0	0.5
Optical rotation	+29.0 to +31.5	+30.6
Refractive Index @20°C	1.495-1.502	1.497
Moisture	<1.0	0.5
Heavy Metals(as lead)*	<10	<10

Note: 1. The items labelled with * are tested at regular intervals.
 2. Heavy metals is a non-usp indicator, which is internal control standard test item.

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.

As it is electronically generated document, hence no signature required.

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