

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Provitamin B5 Powder (dl-panthenol)
INCI Name: dl-Panthenol
CAS Number: 16485-10-2
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 36 months from production date

Analytical Tests	Specifications	Results
Appearance	White to off-white crystalline powder	Conforms
Assay	99% - 102%	99.8%
Melting Point	64.5oC - 68.5oC	66.2oC
Specific Rotation	-0.05° - +0.05°	0.0°
Residue on Ignition	<0.1%	0.01%
Loss on Drying	<0.5%	0.2%
Identification	Normal reaction	Conforms
Limit of Aminopropanol	<0.1%	0.02%
Heavy Metals	<10ppm	<10ppm
Arsenic	<3ppm	<1ppm
Cadmium	<1ppm	<1ppm
Lead	<2ppm	<1ppm
Mercury	<0.1ppm	<0.1ppm

Conclusion approved to USP 34

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

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