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Specification Sheet

DL-PANTHENOL USP POWDER

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
DLPXCP	3280	16485-10-2	February 7, 2012	AR	No. 2	MPR

CHARACTERISTICS:	White, crystalline, hygroscopic powder with a characteristic odor and slightly bitter taste. It is freely soluble in water, ethanol, methanol and propylene glycol. Soluble in chloroform, and in ether, insoluble in vegetable oil, mineral oil and fats. It is unstable in strong acids and bases.
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SPECIFICATIONS:	Assay (dry basis)	99.0-102.0%
	Identification	To pass test per USP
	Melting point	64.5-68.5°C
	Specific rotation	Between -0.05° and +0.05°
	Loss on drying	0.5% max
	Residue on ignition	0.1% max
	Limit of Aminopropanol	0.10% max
	Residual solvents	
	Methanol	To pass test
	Heavy metals	10 ppm max

STOCKING POINTS:	Chicago, IL
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PACKAGING:	20 kg carton
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APPLICATIONS:	<p>It is a moisturizing and conditioning agent and a source of vitamin B5 for use in hair care and skin care products. Primary use is in all hair care products making split end repair claims (shampoos, conditioners, salon products). DL-Panthenol is applied in almost all types of cosmetic preparations. D-Panthenol is the provitamin of D-Panthenic Acid (Vitamin B5), which plays a key role in the human intermediary metabolism. Deficiency of Vitamin B5 can result in many dermatological disorders.</p> <p>In skin it is a deep penetrating moisturizer; stimulates epithelisation (fibroblast proliferation and normal keratinization); has a positive effect on wound healing and is an anti-inflammatory.</p> <p>In hair it is a long lasting moisturizer; prevents damaged hair; thickens hair; improves luster and sheen.</p> <p>In nail care improves hydration and imparts flexibility.</p>
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OTHER:	<p>Meets all requirements for USP</p> <p>DL-Panthenol is stable to air and light. If it is stored at around 20°C in the original container it will have a shelf life of 2 years.</p>
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