



Technical Data sheet

DEXPANTENOL PH.EUR. (D-PANTENOL)		
DESCRIPTION DCI: DEXPANTHENOL		DESCRIPTION DOE: DEXPANTHENOL
CAS Nº: 81-13-0	EC Nº: 201-327-3	
MOL. WEIGHT: 205.25	MOL. FORMULA: C ₉ H ₁₉ NO ₄	ARTICLE CODE: 009673

ATTRIBUTES	SHOULD BE
Appearance	colourless or slightly yellowish, viscous hygroscopic liquid, or a white or almost white, crystalline powder
Solubility	very soluble in water, freely soluble in ethanol (96 %)
Identification A	Complies
Identification B	Complies
Appearance of solution	Clear and not more intensely coloured than ref. sol. B6
pH	=< 10.5
Specific optical rotation	+29.0° / +32.0°
3-Aminopropanol	=< 0.5 %
Water	=< 1.0 %
Sulfated ash	=< 0.1 %
Assay	98.0 - 101.0 %
Pantoic acid	0 - 0.5 %
Pantolactone	0 - 1.0 %
Residual solvents	
Methylene Chloride	=< 50 ppm
Methanol	=< 200 ppm
Microbiological control	
TAMC	=< 100 CFU/g
TYMC	=< 100 CFU/g
Enterobacteria	=< 100 CFU/g
Salmonella	Absence/25g
Escherichia coli	Absence/10g
Staphylococcus aureus	Absence/10g
Candida albicans	Absence/10g
Pseudomonas aeruginosa	Absence/10g

COMPLIES WITH

European Pharmacopoeia 9.0

STORAGE

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

REMARKS

Tretinoin is subjected to the requirements of the ICH Q3D "Elemental Impurities" guideline.

Certificates of residual solvents, allergens, non-GMO and BSE-TSE are available upon request.

Properties and uses

It is a vitamin factor of the group of vitamins B, acting as a precursor of coenzyme A, a substance required in numerous biochemical processes, such as the production of energy and the metabolism of fats, carbohydrates and proteins. When administered orally, it rapidly oxidizes to the acid form (pantothenic acid or vitamin B5). The dexpantenol solutions are stable at pH = 4-7 (with an optimum pH of 6). It is used in the treatment of intestinal atony, constipation, paralytic ileus, alopecia, and skin regeneration. It is generally used in liquid multivitamin preparations, replacing the pantothenate. It



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typically has a healing, anti-seborrheic, and eutrophic action on the hair follicle (from which it derives its use in lotions for seborrheic alopecia). It is used in the form of ointments, ointments, creams, lotions, or solutions, in the therapy of burns, various dermatoses, and infected ulcers. It has also been administered for the purpose of reducing the adverse reactions of streptomycin and salicylates. It is also used in cosmetic preparations for its moisturizing and moisturizing action, and for its stimulation effect on epithelial metabolism.

Dosage

Intramuscular route for the prevention or control of gastrointestinal atony, in doses of approximately 250 - 500 mg (the necessary dose has not yet been established). Topical route, usually at 0.5 - 5%.

Side effects

In general, they are mild and transient, and can rarely cause allergic reactions because they are a hypersensitizing agent.

Contraindications

It is contraindicated in hemophilic patients and in individuals with mechanical intestinal obstruction.

Precautions

It should be used with caution when used together or immediately after parasympathomimetic drugs or suxamethonium.

Incompatibilities

Strong acids and alkalis.

Other observations

It is thermolabile. During storage it can crystallize.