

# Calcium Pantothenate (Vitamin B-5)

**INCI Name: Calcium Pantothenate**

**CAS Numbers: 137-08-6**

## Description:

Vitamin B5 is part of the B group vitamins and classified as a water-soluble vitamin. This nutrient can be manufactured in the body by the intestinal flora. Vitamin B5 has been used for years in hair care products because it functions as a humectant that increases the water content of hair and improves its elasticity. Vitamin B5 is inactive but is readily converted to pantothenic acid in the skin. It then is incorporated as an important component in the energy cycle of the cell. Vitamin B5 can also attract water into the upper layer of the skin and is thus effective as a moisturizer and softener. Moreover, it can promote epithelization thereby enhancing the regeneration of the skin.



## Technical Data:

<u>Physical</u>	<u>Specification</u>
Appearance	White powder
Identification	Passes test A & B
Specific rotation	+ 25.0° ~ + 27.5°
Alkalinity	Passes test
<u>Composition</u>	
Nitrogen	5.7% ~ 6.0%
Calcium	8.2% ~ 8.6%
Loss on drying	≤ 5.0%
Ordinary Impurities	Meets requirement
<u>Safety</u>	
Heavy Metals	≤ 0.002%
Organic Volatile Impurities	Meets requirement
<u>Microbiological</u>	
Total plate count	NMT 1,000 cfu/g
Yeast & mold	NMT 100 cfu/g
Salmonella	Negative
E.coli	Negative

## Applications:

Vitamin B5 is used in many skin care products as a moisturizer and restorative. Also commonly found in soaps, body washes, and hair care products.



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