



## D-Calcium Pantothenate

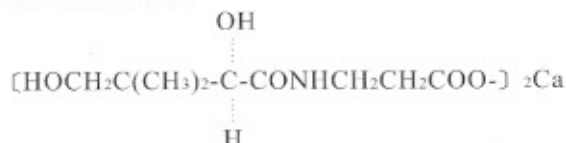
**Popular Name:** Vitamin B5

**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub>

**Molecular Weight:** 476.53

**CAS NO.:** 137-08-6

**Structural Formula:**



### Appearance and Character:

D-Calcium Pantothenate is a kind of white powder, odorless, slightly hygroscopic. It tastes a little bitter. Its aqueous solution shows neutral or faintly base, it dissolves easily in water, slightly in alcohol and hardly in chloroform or ethyl ether.

### Property

Identification  
Specific Rotation  
Alkalinity  
Loss on Drying  
Heavy Metals  
Ordinary Impurities  
Organic Volatile Impurities  
Nitrogen Content  
Content of Calcium

### Specification

normal reaction  
+25.0° ~ +27.5°  
normal reaction  
≤5.0%  
≤0.002%  
≤1.0%  
as required  
5.7%~6.0%  
8.2%~8.6%



### Physiological Function:

D-Calcium Pantothenate functions as vitamins in feed, food and pharmaceutical industry. It is an essential part of coenzyme A. It can adjust the metabolism of protein, carbohydrate and fat, preserve the mucosa on the skin surface and shine of the hair (or feather), and moreover prevent diseases. It is especially indispensable to the growth, fat synthetize and catabolism of poultry, livestock and fishes.

### Deficiency Symptoms:

The deficiency of D-Calcium Pantothenate will cause poultry and livestock to grow slowly, hinder their reproduction, lower their adaptability. Main symptoms: rough skin, reluster or loss of hair or feather, scabby crusts appear round the corner of the eyes; disorder of digestion, loss of appetite, diarrhea; low rate of hatch ability and high embryomortality; scabby crusts over affected areas such as the corners of the month or beak, around the eyes, behind the ears and occasionally on the feet. Also a deficiency can lead to unsteady movements, which are recognized particularly in pigs as "goose-stepping".

**Storage:** to keep in a dry, cool and off-light place. If it is stored at below 20°C in the tightly sealed, original containers, it has a shelf life of 24 months.

**Package:** 10 kg drum, 25 kg drum, 25 kg carton

**Manufacturer:** Zhejiang Xinfu Biochemical Co., Ltd.