



GB 1903.53-2021

National Food Safety Standard

Food Nutritional Fortification Substance

D-Calcium Pantothenate

食品安全国家标准 食品营养强化剂 D-泛酸钙

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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Food Nutritional Fortification Substance D-Calcium Pantothenate

1 Scope

This standard applies to the food nutritional fortification substance D-calcium pantothenate produced through acylation reaction of β -amino calcium propionate and D-pantolactone.

2 Chemical Name, Molecular Formula, Structural Formula and Relative Molecular Mass

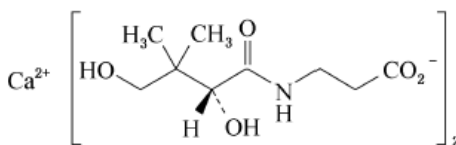
2.1 Chemical name

D-(+)-N-(2,4-dihydroxy-3,3-dimethyl-butyl)- β -amino calcium propionate

2.2 Molecular formula

$C_{18}H_{32}CaN_2O_{10}$

2.3 Structural formula



2.4 Relative molecular mass

476.54 (according to the international relative atomic mass in 2018)

3 Technical Requirements

3.1 Sensory requirements

Sensory requirements shall comply with the provisions in Table 1.

Table 1 Sensory requirements

Items	Requirements	Test methods
Color	White	Take an appropriate amount of test sample and place in a clean and dry
State	Powder	



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