



Specification

Concerning Product:	
Article number	137086CUPV
Trade name / designation / denomination	Vitamin B5 (Calcium-D-Pantothenat) Vegan
CAS number	137-08-6
Other names / synonyms	•Calcium DL-Pantothenate; •Calcium pantothenate; •DL-Pantothenic Acid Calcium Salt; •Vitamin B5; •calcium 3-[(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)amino]propanoate;
EC number	205-278-9
Customs tariff number / CN code / TARIC	29362400
Molecular weight [g / mol]	476,54
Formula	C ₁₈ H ₃₂ CaN ₂ O ₁₀

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	Colorimetry	clear and colourless	
Appearance	Eyeballing	white or almost white powder	
Physical parameter			
Loss on drying		≤ 3,0	%
pH value		5% 6,8 – 8,0	
Specific Optical Rotation		25,5 – 27,5	°
Identity			
Assay	Perchloric acid titration	98,0 – 101,0	%
Identification		A: It complies with the test for specific optical rotation.	
Identification	TLC	B: The principal spot in the chromatogram obtained with the sample solution(b) is similar in position, color and size to the principal spot in the chromatogram obtained with the sample solution(a)	
Identification	Development process	C: A blue color develops	
Identification	Calcium identification	D: positive	
Impurities			
Heavy Metals (as Pb)		≤ 20	ppm
Impurity	TLC	3-aminopropionic acid ≤ 0,5	%

Elemental Impurities			
Arsenic (As)		≤ 1,0	ppm
Cadmium (Cd)		≤ 1,0	ppm
Chlorides (Cl)		≤ 200	ppm
Lead (Pb)		≤ 2,0	ppm
Microbiological data			
Escherichia Coli.		Negative	CFU/g
Salmonella		Negative	
Total Plate Count		≤ 1000	CFU/g
Yeast and Mould		≤ 100	CFU/g
Particle size distribution			
Particles		60 mesh: ≥ 90	
Particles		80 mesh: ≥ 80	

Annotation:

EU Foodgrade: Conform with REGULATION (EC) No178/2002 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 28 January2002.

BSE/TSE: BSE/TSE free

GMO Status: GMO free

Vegan: Conform

Fructose: Free

Supplemental information:

Manufacturing process: Synthetic

Complies with monographie: BP 2018

Packing: 25 kg Carton

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 05. Jan. 2022

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