

CERTIFICATE OF ANALYSIS

Product Name	Calcium D-Pantothenate (Vitamin B5)		
Batch Number	BH241126	Analysis Date	2024-11-28
Manufacture Date	2024-11-26	Expiry Date	2026-11-25

Items	Standards	Results
Physical and chemical analysis:		
Description	White powder, odorless	White powder, odorless
Identification1	Color reaction	Qualified
Identification2	Color reaction	Qualified
Identification3	Calcium salt differential reaction	Qualified
Identification4	The infrared light absorption spectra of the sample should be consistent with the control spectra	Qualified
Identification5	The solution should be clear and colorless under pH	Qualified
Identification6	Soluble in water and glycerin, slightly soluble in ethanol, insoluble in trichloromethane or ether	Qualified
D-calcium pantothenate content	97%~103%	98.2%
Calcium content (on dry basis)	8.2%~8.6%	8.39%
Loss on Drying	≤5%	2%
Specific rotation	+25.0℃~+27.5℃	+26.7℃
PH(50g/L aqueous solution)	6.8-8	7.8
Alkaloid test	Pass test	Qualified
Alkalinity (50g/L)	Pass test	Qualified
Chloride (Cl)	≤200mg/kg	<200mg/kg
B-alanine	≤0.5%	<0.5%
Residue analysis:		
Pb	≤2ppm	<2ppm
As	≤0.5ppm	<0.5ppm
Microbiological:		
Total Plate Count	<1000cfu/g	140cfu/g
Yeast&Mold	<100cfu/g	40cfu/g
General Information:		
Conclusion	Conform to specification.	
Storage	Keep in cool & dry place. Keep away from strong light and heat.	
Shelf life	24 months.	

Tested by: Tony Liu

Approved by: Mike He

