

STANDARD CERTIFICATE OF ANALYSIS

Product: 75,000 KG VITAFOR CALPAN

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

CAS-number: 137-08-6

Article number: 10-0136-002

QC - number : G4-LEVE-CA-22098F

Lot number: 2019040101

Man. Date: 01/04/2019

Shelf life : 31/03/2021

Item(s): **Specification(s):** **Result(s):**

Characteristics: Fine white crystalline powder. Conform

Vitamin D-Calcium Panthothenate

(on dry substance): Min. 98 % Conform

Loss on drying: Max. 5 % Conform

Storage: Store in dry and cool places



Data as received from our supplier.

The mentioned product is in conformity

with the specifications.



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山东华辰生物化学有限公司
SHANDONG HWATSON BIOCHEM CO., LTD.
NO. 04930, HAIFENG ROAD, WEIFANG, SHANDONG, CHINA

CERTIFICATE OF ANALYSIS

Date: APR.02,2019

Product Name: D-Calcium Pantothenate
Batch No.: 2019040101
Manufacturing Date: APR.01,2019
Expiry Date: MAR.31,2021
Batch Weight: 1350KG
Package: Packed in 54 cartons of 25kg net each

ITEM	STANDARD	RESULT
Appearance	White Powder	Conforms
Identification of Calcium ion	Normal reaction	Normal reaction
Specific Rotation	+25.0° ~ +27.5°	+26.3°
Alkalinity	Normal reaction	Conforms
Loss on Drying	≅ 5.0%	1.1%
Heavy Metals	≅ 0.002%	< 0.002%
Impurity content	≅ 1.0%	Conforms
Nitrogen Content	5.7% ~ 6.0%	5.9%
Content of Calcium	8.2% ~ 8.6%	8.3%
Assay of calcium pantothenate	98.0% ~ 101.0%	99.1%

Conclusion: The product conforms to the standard of USP40

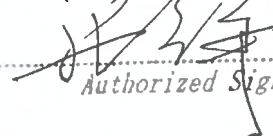
QA MANAGER: Guo Wenzhi

ANALYST: Liang Hualan

CHECKER: Liu Baibai



For and On Behalf of
山东华辰生物化学有限公司
SHANDONG HWATSON BIOCHEM CO., LTD.


Authorized Signature(s)