PRODUCT DATA SHEET

Product Name： D-Calcium pantothenate

Product Expiry Date： 3 years

Product Characteristics: Alanine,*N*-(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)-,calcium salt (2:1)

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

Molecular Weight: 476.53

Specification:USP

CAS number: 137-08-6

Items of analysis	Specification	Test method
Appearance	White or almost white powder	Visual
Identification		
A: Spectroscopic Identification Tests-infrared spectroscopy	Concordant with the reference spectrum	USP<197>
B: Identification tests-General Calcium	Conform to USP43	USP<191>
Specific optical rotation	+25.0° ～+27.5°	USP<781S>
Alkalinity	No pink color is produced within 5s	USP
Loss on drying	Not more than 5.0%	USP<731>
Heavy metals (colorimetry)	Not more than 20ppm	colorimetry
Content of calcium	8.2～8.6%	USP
Assay (HPLC)	98%-102%	USP(HPLC)
Total plate count	<1000CFU/g	USP
Mold and Yeast	<100 CFU/g	USP
Staph aureus	Absent	USP
Salmonella	Absent	USP
E. coli	Absent	USP
Lead	Not more than 2.0ppm	AAS
Arsenic	Not more than 1.0ppm	AAS
Mercury	Not more than 0.1ppm	AAS
Cadmium	Not more than 1.0ppm	AAS

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