

Certificate of Analysis

Product Name: Vitamin B5

Standard: USP39

Origin: China

Test item	Specification	Results
Appearance	white powder	Conform
Identification		
A: Infrared Absorption <197K>	concordant with the reference spectrum conform to USP39	3.8%
B: A solution (1 in 20) responds to the tests for Calcium	conform to USP39	<10 mg/kg
Specific optical rotation	+25.0° ~+27.5°	+26.7°
Alkalinity	no pink color is produced within 5 seconds	Conform
Loss on drying	not more than 5.0%	3.8%
Heavy metals	not more than 20ppm	Conform
Ordinary impurities	not more than 1.0%	Conform
Nitrogen determination	5.7%~6.0%	5.75%
Content of calcium	8.2~8.6%	8.31%
Assay	98%-101%	98.9%
Conclusion: Conform to USP39		