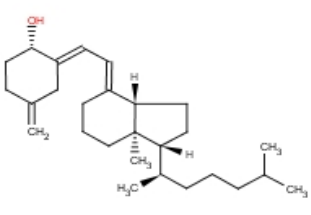




HANGZHOU DINGYAN CHEM CO., LTD
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CERTIFICATE OF ANALYSIS

NO: DYC021403114

Product name	Vitamin D3
CAS Number	67-97-0;8024-19-9;8050-67-7
Molecule Structure	
Molecule Formula	C ₂₇ H ₄₄ O
Batch number	20130512
Manufacture Date	2013-05-12
Testing date	2013-05-17

Items	Standard	Result
Appearance	White or almost white crystals	Qualified
Solubility	Practically insoluble in water, freely soluble in ethanol(96 percent), soluble in trimethylpentane and in fatty oils	Qualified
Identification	Infrared absorption spectrophotometry Comparison: cholecalciferol CRS	Qualified
Specific optical rotation	+105° ~ +112°	+109°
Related substances	Impurity A ≤0.1% Each impurity ≤0.1% (disregard pre-cholecalciferol) Total impurities ≤1.0% (disregard pre-cholecalciferol)	<0.1% <0.1% <1.0%
Residual solvents	N-hexane ≤290mg/kg Acetonum ≤5000mg/kg Methanol ≤3000mg/kg Methyl formate ≤100mg/kg	7mg/kg Non-detected 100mg/kg 20mg/kg
Assay	97.0~102%	102.0%
Conclusion	Conform with EP Standard	


 Hangzhou Dingyan Chem Co., Ltd.
 QUALITY CONTROL: Xuefen Chen
 CHECK: 姚仙娟
 INSPECTOR: 刘清风

ADD:RM 1118, NO.I BUILDING, BAIYUN TOWER, JIANGGAN AREA, HANGZHOU CITY, CHINA