



Certificate of analysis

Productname: Calcitriol

Cas number: 32222-06-3

Molecular Formula: $C_{27}H_{44}O_3$

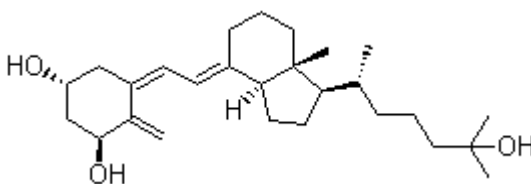
Molecular Weight: 416.64

Date of production: May. 03, 2017

Batch NO: 20170503

Exp Date: : May. 02, 2019

Chemical structure:



ITEMS	SPECIFICATIONS	RESULTS
Description	White or almost white crystals	white crystals
Identification	Infrared spectrum corresponds to that of the standard preparation	Complies
	The retention time of the major peak in the chromatogram corresponds to that in the chromatogram of standard preparation	Complies
Solubility	Practically insoluble in water, freely soluble in ethanol(96%), soluble in fatty oils	Complies
Related Compounds	Impurity A(Trans-calcitriol) $\leq 0.5\%$	ND
	Impurity B(1β -calcitriol) $\leq 0.5\%$	ND
	Impurity C(Triazoline adduct of pre-calcitriol) $\leq 0.5\%$	ND
	Any other individual impurity $\leq 0.1\%$	0.09%
	Total impurities $\leq 2.0\%$	0.09%
Purity (HPLC)	$\geq 98\%$	99.91%
Residual Solvents by GC	Acetone $\leq 0.5\%$	0.08%
	Ethyl acetate $\leq 0.5\%$	0.03%
	n-Hexane $\leq 0.029\%$	0.006%
	Methanol $\leq 0.3\%$	ND
Content	97.0~103.0%	99.98%

Conclusion: It complies with the Enterprise Standard.

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F