



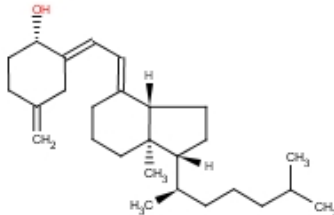
HANGZHOU DINGYAN CHEM CO.,LTD

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### CERTIFICATE OF ANALYSIS

NO: DYC041803052

Product name	Vitamin D3 Oil, Food Grade USP39
CAS Number	67-97-0
Molecule Structure	
Molecule Formula	C27H44O
Batch number	20170220
Manuf&Exp. Date	2017-02-20;2019-02-20
Testing date	2017-02-22

Analysis tests	Standard	Results	
Sensory Requirements	Light yellow oily liquid, no rancidity flavor	Complies	
Identification	Appropriate to take this product, add 5ml chloroform dissolved, add 0.3ml acetic anhydride and sulfuric acid 0.1ml, shaking, beginning to bear yellow, graded red, quickly becomes purple, the last green.	Complies	
Solubility and Miscibility	Slightly Soluble in Ethanol, Practically insoluble in water & miscible with solvents of fats.	Complies	
Vitamin D3 Content (HPLC)	1,000,000IU/g min	1,022,000IU/g	
Acid Value	1.0mgKOH/g max	0.11mgKOH/g	
Peroxide Value	15meq/kg max	1.0meq/kg	
Heavy Metal	10ppm max	Complies	
Lead	2ppm max	1ppm max	
Arsenic	1ppm max	1ppm max	
Microbial Limit Test	Total Plate Count	1000cfu/g max	10cfu/g max
	Yeast & Mold	100cfu/g max	10cfu/g max
	E. Coli	Negative/10g	Negative
	Salmonella	Negative/25g	Negative
Conclusion: Conform to USP39.			

Hangzhou Dingyan Chem Co.,Ltd.  
QUALITY CONTROL: Cristina  
Quality Control  
Signature(s)

CHECK: 姚仙娟

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