



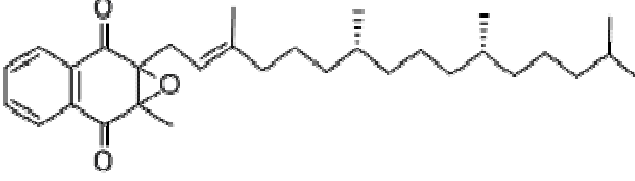
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC12180322256

Product Name	Vitamin K1 oxide
CAS Number	25486-55-9
Molecule Structure	
Molecule Formula	C31H46O3
Batch Number	20180321
Mfg. Date;Expiry Date	2018-03-21 ;2020-03-20
Test Date	2018-03-22

Items	Standard	Result
Appearance	A clear intense yellow, viscous, oily liquid	Conforms
Assay	≥98.0%	99.25%
Solubility	Insoluble in water, practically insoluble in methanol, slightly soluble in ethanol at room temperature and highly soluble in 80 °C,completely soluble in hexane, higher aliphatic and ether	Conforms
Identification	A sight red color indicates the presence of the vitamin K oxide	Conforms
UV Spectra	UV spectra of vitamin K oxide presents Absorption at 226nm	Conforms
Impurities	Menadione ≤0.005%	Conforms
	Vitamin K1 ≤0.05%	Conforms
	Free Naphtoquinone ≤0. 5%	Conforms
	Minerals: Determined by sulfuric ash determination	Conforms
Conclusion : Conform to Enterprise standard.		

QUALITY CONTROL
Hangzhou Dingyan Chem Co., Ltd.
Quality Control

Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风

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