



# 武汉福鑫化工有限公司 Wuhan Fortuna Chemical Co.,Ltd

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## Certificate of Analysis

Product: Vitamin K1 (Phytonadione)

Batch No.: 20200402

Mfg. date: Apr, 09, 2020

Quantity: 65kgs

Package: 1kg/tin

Expiry date: Apr, 08, 2022

Items	Specification	Result
Characteristics	Clear, yellow to amber, very viscos, odorless or practically odorless liquid, having a specific gravity of about 0.967, is stable in air, but decomposes on exposure to sunlight. Soluble in dehydrated alcohol, in benzene, in chloroform, in ether, and in vegetable oils; slightly soluble in alcohol; insoluble in water.	Conform
Identification	A. IR: Absorptivities don't differ by more than Cetermination B. Ultraviolet: within 3.0% at 248nm	Conform Conform
Assay(Z and E isomers)	97.0~103.0%	98.41%
Z Isomer	21.0% Max	16.8%
Refractive Index	1.523~1.526	1.526
Reaction 1	A1 in 20solution of phytonadione in dehydrated alcohol is neutral to litmus.	Conform
Reaction 2	Test the limit of menadione	Conform
Conclusion	Conform to the standard of USP42.	

QC: Luo Xiaofeng

Test: AT03

Re-test: AT01