

CERTIFICATE OF ANALYSIS

Product Name	Vitamin K1 Oil	Batch No	PY-VK20210309
Quantity	1000KG	Analysis Date	Mar.12,2021
Mfg. Date	Mar.09,2021	Exp. Date	Mar.08,2023
Package	25kg/Drum	Standard	USP42

No.	Item	Specification	Result
1.	Appearance	A clear intense yellow, viscous, oily liquid, practically insoluble in water, sparingly soluble in alcohol, miscible with fatty oils.	Complies
2.	Assay(Z and E isomers)	97.0%~103.0	98.35%
3.	Assay(Z isomers)	≤21.0	17.21%
4.	UV spectrum	Test solution and standard solution exhibit maxima an the same wavelength and absorptivity at 248 nm is within 3.0%.	Complies
5.	Infrared spectrum	Conforms to standard spectrum	Complies
6.	Reaction 1	A 1 in 20 solution of it in dehydrated Alcohol is neutral to litmus.	2.0%
7.	Reaction 2	Test the limit of menadione	0.7%
8.	Conclusion	Conform to the USP42 Standard.	

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