

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	CP2015

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%
	HPLC spectrum	The retention time of the main peak of the test solution should be the same as that of the reference solution.	Complies
3.	UV spectrum	At the wavelengths of 243nm, 249nm, 261nm and 270nm, the maximum absorption is observed.The minimum absorption at 228nm, 246nm, 254nm and 266nm is observed.The ratio of absorbance at 254nm to 249nm should be 0.70-0.75	Complies
4.	Infrared spectrum	The infrared map should be the same as the control map 456	Complies
5.	Menadione	≤0.2%	Complies
6.	Homeopathic isomers	≤21%	14.6%
7.	Conclusion	Conform to the CP2015 Standard.	

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