

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-20 14:40:27
Date of Next Testing: 2026-09-10 14:40:27
Product Name: **Vitamin K1**
CAS Number: 84-80-0
Specifications & Purity: 98%(sum of Cis-trans)
Lot #: B2103023
SKU #: **V104147**
Version: **0**
Analysis #: **413351**
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(Mixture of cis and trans isomers ,HPLC)	98-100 (%)	98.21%
Refractive index n ₂₀ /D	1.525-1.529	1.53
Cis-isomer	0-21 (%)	11.40%
Appearance (V104147)	yellow to orange liquid	yellow to orange liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in CHCL ₃ , Yellow to Dark Yellow Clear 100 ul/ml	pass	Pass



John Su
QA & QC Manager