

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-12 14:44:41
Date of Next Testing: 2025-10-01 14:44:41
Product Name: **Vitamin K1**
CAS Number: 84-80-0
Specifications & Purity: 98%(sum of Cis-trans)
Lot #: J2309274
SKU #: **V104147**
Analysis: **284694**
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 (%)	98.60%
Refractive index n ₂₀ /D	1.525-1.529	1.53
Cis-isomer	0-21 (%)	12.70%
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