

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-01 13:31:29
Date of Next Testing: 2025-02-18 13:31:29
Product Name: **Vitamin K1**
CAS Number: 84-80-0
Specifications & Purity: 98%(sum of Cis-trans)
Lot #: B23241026
SKU #: **V104147**
Version: **0**
Analysis #: **142179**
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Cis-isomer	0-21 (%)	0.00 %
Refractive index n ₂₀ /D	1.525-1.529	1.53
Purity(Mixture of cis and trans isomers ,HPLC)	98-100 (%)	99.00 %
Appearance (V104147)	yellow to orange liquid	yellow to orange liquid
Solubility in CHCL ₃ , Yellow to Dark Yellow Clear 100 ul/ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager