

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-05 17:48:43
 Date of Next Testing: 2027-08-26 17:48:43
 Product Name: **Vitamin K1**
 CAS Number: 84-80-0
 Specifications & Purity: $\geq 98\%$, sum of Cis-trans
 Lot #: I2503780
 SKU #: **V104147**
 Version: **0**
 Analysis #: **570101**
 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 (%)	99.16100 %
Refractive index n ₂₀ /D	1.525-1.529	1.52690
Cis-isomer	0-21 (%)	14.54000 %
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