

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-27 16:23:19
 Date of Next Testing: 2027-05-17 16:23:19
 Product Name: **Vitamin K1**
 CAS Number: 84-80-0
 Specifications & Purity: $\geq 98\%$, sum of Cis-trans
 Lot #: E2526624
 SKU #: **V104147**
 Version: **0**
 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 (%)	98.59900 %
Refractive index n _{20/D}	1.525-1.529	1.52560
Cis-isomer	0-21 (%)	12.70000 %
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