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## **Certificate of Analysis**

Product Description: Vitamin K1\_ Catalog Number: 103283\_

Lot: 1847K\_

Formula: C<sub>31</sub>H<sub>46</sub>O<sub>2</sub> Formula Weight: 450.7

CAS #: 84-80-0 Storage: +4°C, protect from light

Physical Description: Thick Yellow to Amber Liquid

Test	Specification	Result
Identity Test A	Positive	Positive
Identity Test B	Positive	Positive
Reaction to Litmus (5% in alcohol)	Neutral	Neutral
Refractive Index @ 25°C	1.523 - 1.526	1.524
Menadione	Not Detected	Not Detected
Z Isomer Content	# 21.0%	12.6%
Assay (Total E and Z Isomers)	≥97.0%	98.0%

Solubility: Insoluble in water, soluble in dehydrateed alcohol, benzene, chloroform, ether, vegetable oil and alcohol.

10/09/2008 - Robert Beattie

MP Biomedicals, LLC.
Technical Director

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