

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Vitamin K1_

Catalog Number: 103283_

Lot: 5315H_

Formula: $C_{31}H_{46}O_2$

CAS #: 84-80-0

Physical Description: Thick Dark Yellow Liquid

Formula Weight: 450.7

Storage: +4°C, protect from light

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	1.525
Menadione	Not detected	Conforms
Z Isomer content	Not more than 21.0%	18.2%
Assay (Total E and Z Isomers)	Not less than 97.0%	99.3%


10/18/2004 - Joseph Dietz, Ph.D.
MP Biomedicals, LLC.
Technical Director

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)