

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Retinoic Acid, all trans isomer_

Catalog Number: 190269_

Lot: 6998K_

Formula: C₂₀H₂₈O₂

CAS #: 302-79-4

Physical Description: Bright Yellow Powder

Formula Weight: 300.4

Storage: -0°C, desiccate, protect from light

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	173 - 183°C	175.2 - 176.8°C
□□ max (isopropanol + sulfuric acid)	353 ± 3 nm	Passes
Loss on Drying	≤0.5%	0.2%

Assay: 99.4%

Residue on Ignition: 0.02%

Heavy Metals; <0.002%

Limit of Isotretinoin: 0.1%

Christina Marotta

05/21/2010 - Christina Marotta

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)