



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Vitamin B12 (cyanocobalamin), USP_
Catalog Number: 199652_
Lot: QR14436_

Formula: C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P CAS #: 68-19-9 Physical Description: Dark maroon powder	Formula Weight: 1355.42 Storage: desiccate, 2-8°C
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Test	Specification	Result
Identity Test A	Passes	Passes Test
Identity Test B	Passes	Passes Test
Identity Test C	Passes	Passes Test
Assay	96.0 - 100.5%	99.1% (HPLC)
Loss on Drying	#12.0%	2.7%
Pseudocyanocobalamin	Passes	Passes Test
Expiration Date	Month/Day/Year	05/24/2022

FTIR: Conforms to Standard

Absorbance ratios: 361/278 nm = 1.85

361/550 nm = 3.25

Related substances

Total impurities: 0.7%

7-beta, 8-beta-Lactocyanocobalamin: 0.4%

34-Methylcyanocobalamin: <0.1%

8-Epi-cyanocobalamin: 0.2%

any other impurity (include 50-Carboxycyanocobalamin:32-carboxycyanocobalamin): <0.5%

Residual Solvents (Acetone): 29 ppm

Total plate count: 15cfu/g

Yeasts and molds: <10cfu/g

07/20/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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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)