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## Certificate of Analysis

**Product Description:** Vitamin B12 (cyanocobalamin), USP\_  
**Catalog Number:** 199652\_  
**Lot:** M7375\_

**Formula:** C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P

**CAS #:** 68-19-9

**Physical Description:** Dark Purple Powder

**Formula Weight:** 1355.42

**Storage:** +4°C, desiccate

Test	Specification	Results
Identity Test A	Passes	Passes
Identity Test B	Passes	Passes
Identity Test C	Passes	Passes
Assay	96.0 - 100.5%	98.96%
Loss on Drying	#12.0%	2.43%
Pseudocyanocobalamin	Passes	Passes
Expiration Date	Month/Day/Year	04/21/2018

Absorbance ratios: 361/278 nm = 1.88

361/550 nm = 3.24

Bulk Density: 0.67 g/ml

Heavy Metals: <10 ppm

Mesh Size: 0.25 mm

pH: 6.69

Residual Solvents: 10.4%

Total Bacteria: 30 cfu/g

Solvents Residue: 0.07%

*Christina Marotta*

08/01/2013 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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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)