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## Certificate of Analysis

**Product Description:** Vitamin B12, cell culture reagent  
**Catalog Number:** 194770\_  
**Lot:** QR15457\_

**Formula:** C<sub>63</sub>H<sub>88</sub>N<sub>14</sub>O<sub>14</sub>PCo

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

**Physical Description:** Dark Purple to Maroon Crystalline Powder

**Formula Weight:** 1355.4

**Storage:** 2 - 8°C

Test	Specification	Results
Identity Test	Passes	Passes
Purity	#98.5%	98.50% (Dried Basis)
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	≤12%	3.3%

Identity Test A: Passes

Identity Test B: Passes

Identity Test C: Passes

Pseudocyanocobalimin: Passes

Absorbance ratios:

- A361/A278 = 1.87

- A361/A550 = 3.28

Arsenic: <3 ppm

Cadmium: <1 ppm

Lead: <1 ppm

Mercury: <0.1 ppm

Residual solvents:

- Acetone: 17 ppm

- Ethanol: <5000 ppm

Microbiology:

- Total plate count: <10 cfu/g

- Yeast & Mold: <10 cfu/g

- Coliforms: Negative

- E.coli: Negative

- Staph. aureus: Negative

- Salmonella: Negative

Recommended Retest Date: 06/30/2021

04/18/2018 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager



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