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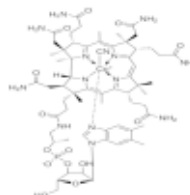
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

Vitamin B12 -  $\geq 98\%$ 

**Product Number:** V2876  
**Batch Number:** MKCJ6408  
**Brand:** SIGMA  
**CAS Number:** 68-19-9  
**MDL Number:** MFCD00151092  
**Formula:** C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P  
**Formula Weight:** 1,355.37 g/mol  
**Storage Temperature:** Store at 2 - 8 °C  
**Quality Release Date:** 19 MAR 2019  
**Recommended Retest Date:** FEB 2022



Test	Specification	Result
Appearance (Color)	Red to Brown	Dark Red
Appearance (Form)	Powder	Powder
Solubility (Color)	Dark Red	Dark Red
Solubility (Turbidity)	Solution	Solution
50 mg/ml, H <sub>2</sub> O		
Loss on Drying	≤ 12 %	2 %
Infrared Spectrum	Conforms to Structure	Conforms
Purity (HPLC)	≥ 98.0 %	100.0 %

Michael Grady, Manager  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.