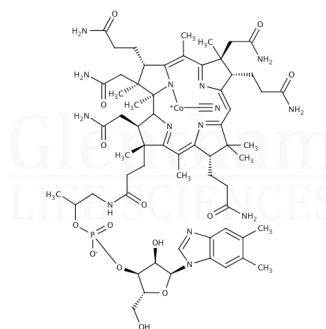


## Certificate of Analysis

Product Name	Vitamin B12, pyrogen free
Glentham Code	GV3321
CAS Number	68-19-9
EINECS	200-680-0
MDL Number	MFCD00151092
Batch Number	807XAJ
Molecular Weight	1355.38
Molecular Formula	$C_{63}H_{88}CoN_{14}O_{14}P$
Storage Temp.	+4°C



Property	Specification	Batch 807XAJ
Physical Description	Dark red crystalline powder	Dark red powder
Solubility (5% in water)	Clear, red to dark red solution	Clear, dark red solution
Loss on Drying	≤ 12.0%	1.6%
Assay	≥ 96.0% (anhydrous basis)	98.1%
Pyrogens	Free from pyrogens	Conforms

Specification Version	v1.0
Manufacture Date	2019-06-18
Re-Test Date	2028-06-25

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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