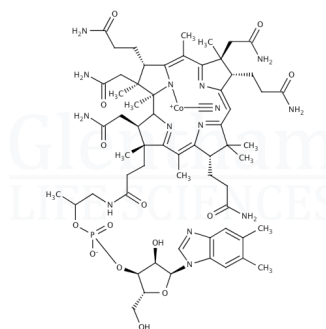


Certificate of Analysis

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 or contact us using the details above for the current version of this document.

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