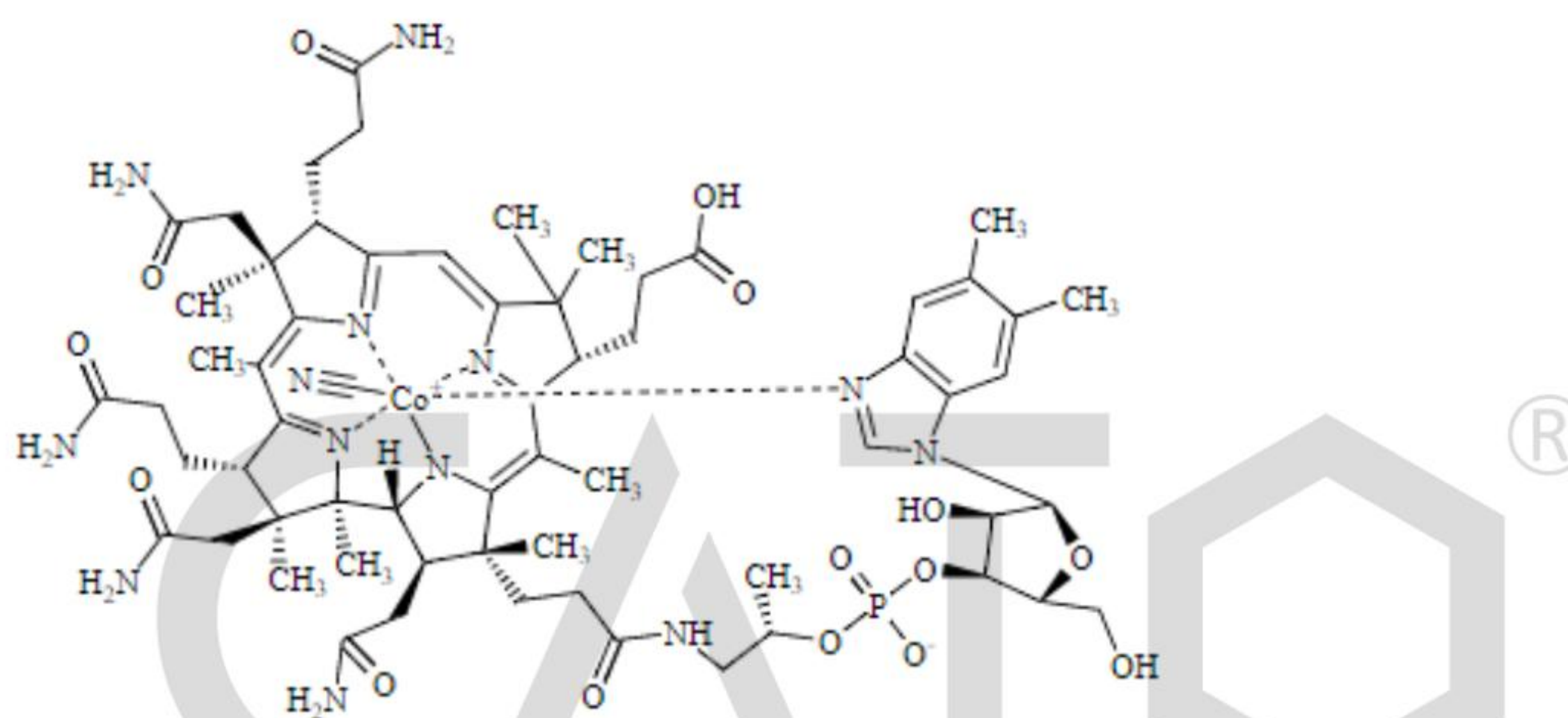


Certificate of Analysis

Reference Material & Standard

Product Name:	Cyanocobalamin EP Impurity B	Catalogue Number:	C4X-187410
Synonyms:	50-Carboxy-cyanoco balamin	Lot Number:	0630-RG-0048
CAS Number:	26264-28-8	Expiry Date:	Jun 15, 2028
Molecular Formula:	C ₆₃ H ₈₇ CoN ₁₃ O ₁₅ P	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	1356.37		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.445%
Water Content	Karl Fischer	6.99%
Residual Solvents	NMR	Not detected in NMR
Assay		91.6%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jun 30, 2025

Date: Jun 30, 2025

Date: Jun 30, 2025

