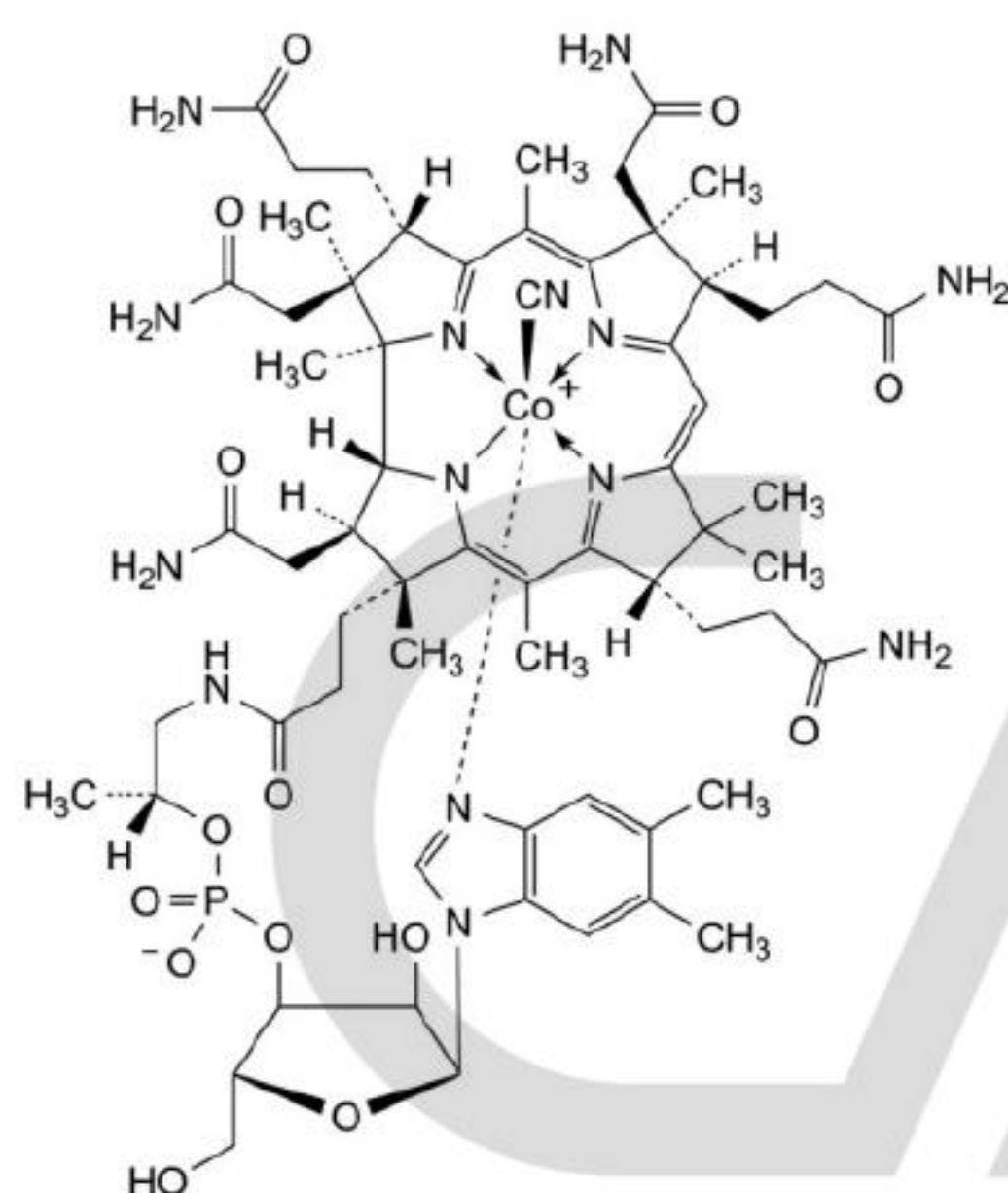


Certificate of Analysis

Reference Material & Standard

Product Name:	Cyanocobalamin EP Impurity E (8-epi-cyanocobalamin)	Catalogue Number:	C4X-18747
Synonyms:	N/A	Lot Number:	0901-RG-0124
CAS Number:	41325-63-7	Expiry Date:	Mar 22, 2027
Molecular Formula:	C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	1355.37		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	HRMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.37%
Loss On Drying	TGA	0.7614%
Assay		98.6%

Comment:

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

Assay (%) = (100%-Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 18, 2025

Date: Sep 18, 2025

Date: Sep 18, 2025



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