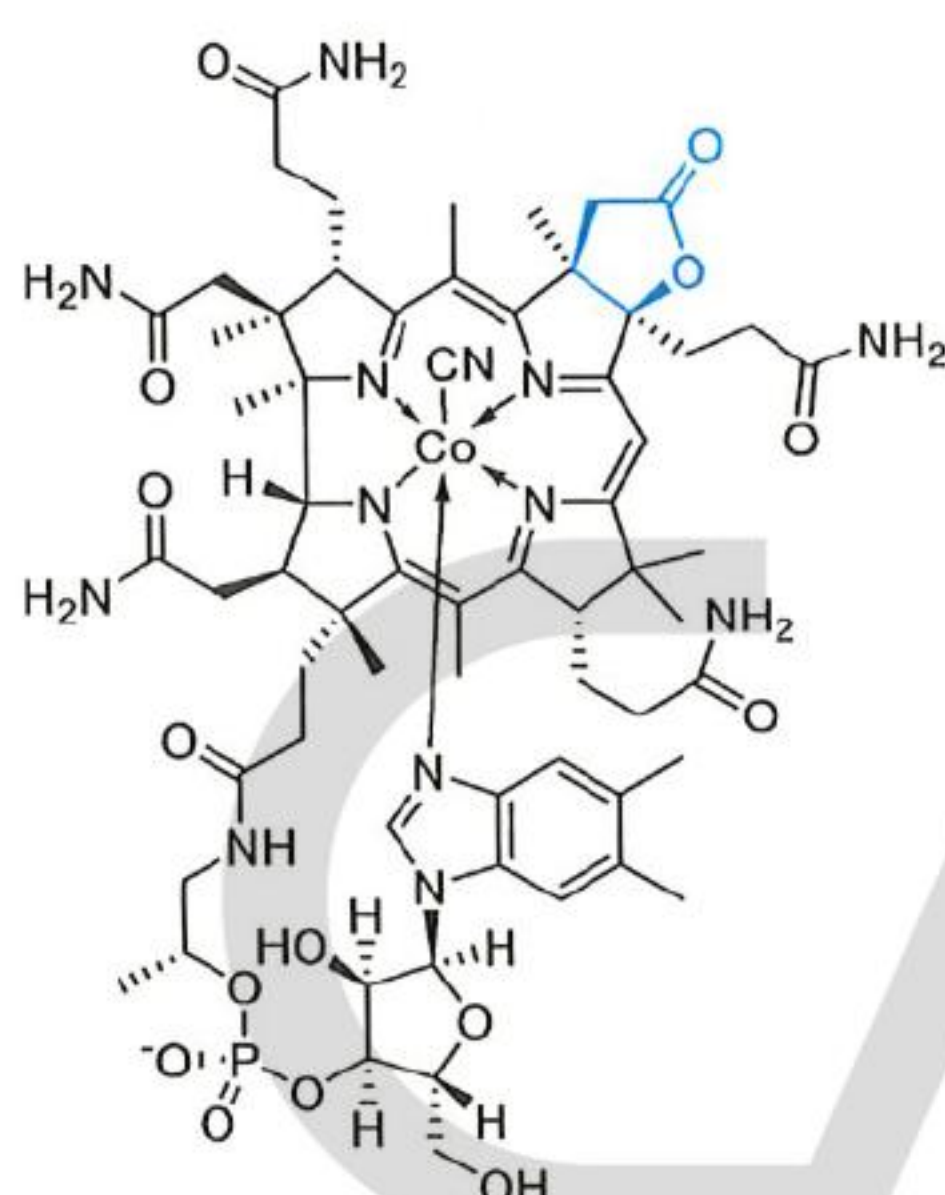


Certificate of Analysis

Reference Material & Standard

Product Name:	Cyanocobalamin EP Impurity A	Catalogue Number:	C4X-18748
Synonyms:	7β,8β-Lactocyanocobalamin	Lot Number:	0802-RH-0074
CAS Number:	23208-66-4	Expiry Date:	Aug 06, 2030
Molecular Formula:	C ₆₃ H ₈₅ CoN ₁₃ O ₁₅ P	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	1354.37	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile;Water=2:1	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	95.140%
Water Content	Karl Fischer	7.83%
Residual Solvents	NMR	Not detected in NMR
Assay		87.7%

Comment:

The calculation of the mass balance 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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 07, 2026

Date: Aug 07, 2026

Date: Aug 07, 2026



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