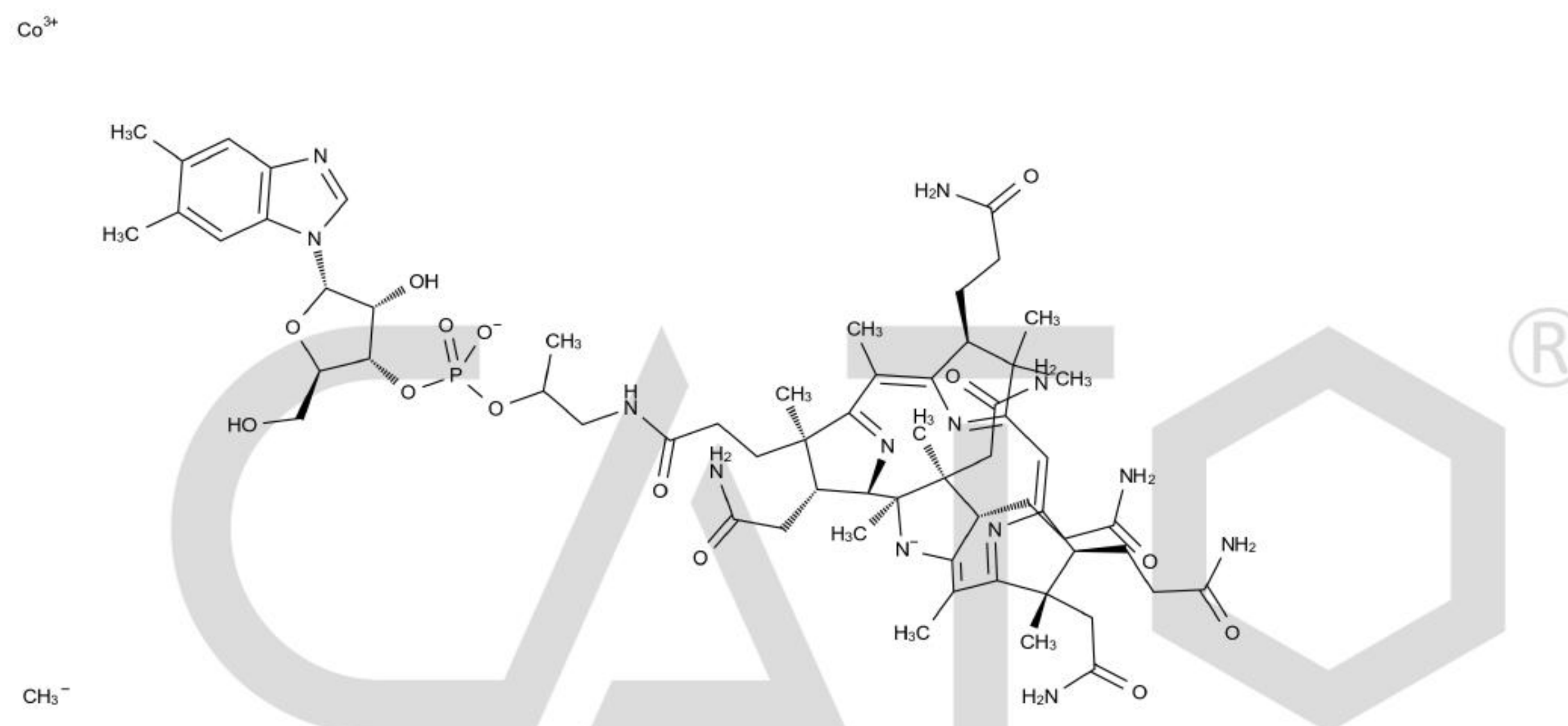


Certificate of Analysis

Reference Material & Standard

Product Name:	Mecobalamin	Catalogue Number:	CCAD300924
Synonyms:	N/A	Lot Number:	0609-RH-0082
CAS Number:	13422-55-4	Expiry Date:	Jun 11, 2030
Molecular Formula:	C ₆₃ H ₉₁ CoN ₁₃ O ₁₄ P	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	1344.38	Shipping Condition:	Shipping with Ice Packs
Solubility:	Methanol		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Dark Red Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.331%
Loss on Drying	TGA	8.1389%
Assay		90.3%
Uncertainty		±0.9%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

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

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jun 12, 2026

Date: Jun 12, 2026

Date: Jun 12, 2026

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