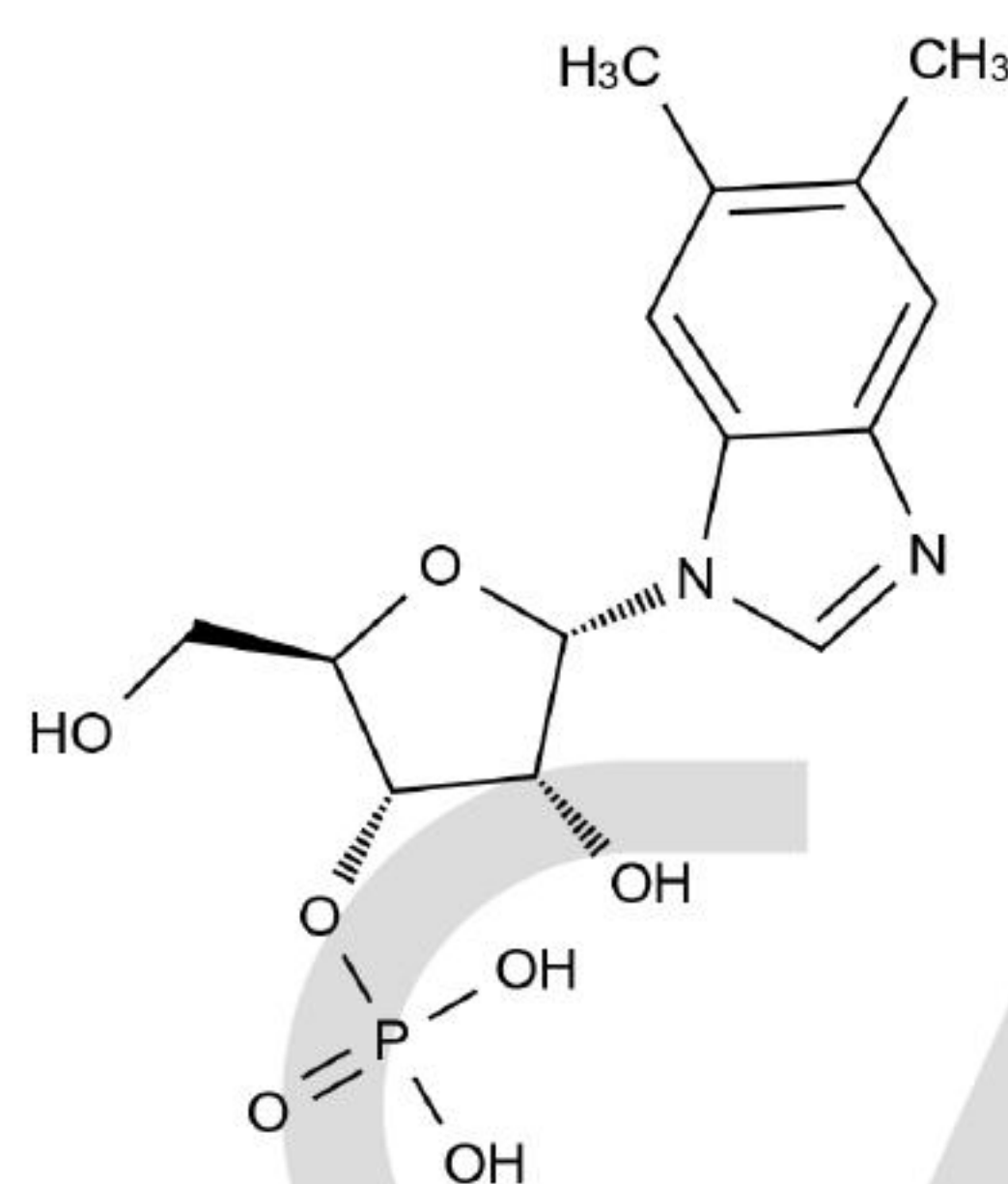


Certificate of Analysis

Reference Material & Standard

Product Name:	Methylcobalamin Impurity 19	Catalogue Number:	C4X-187419
Synonyms:	N/A	Lot Number:	0821-RF-0005
CAS Number:	1098-68-6	Expiry Date:	Mar 21, 2026
Molecular Formula:	C ₁₄ H ₁₉ N ₂ O ₇ P	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	358.28		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.6%
Optical Rotation		[α] _D ^{25.0} (c=0.31, 1N NaOH(aq)): +32.5°
Assay	qNMR	95.3%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 21, 2024

Date: Aug 21, 2024

Date: Aug 21, 2024

