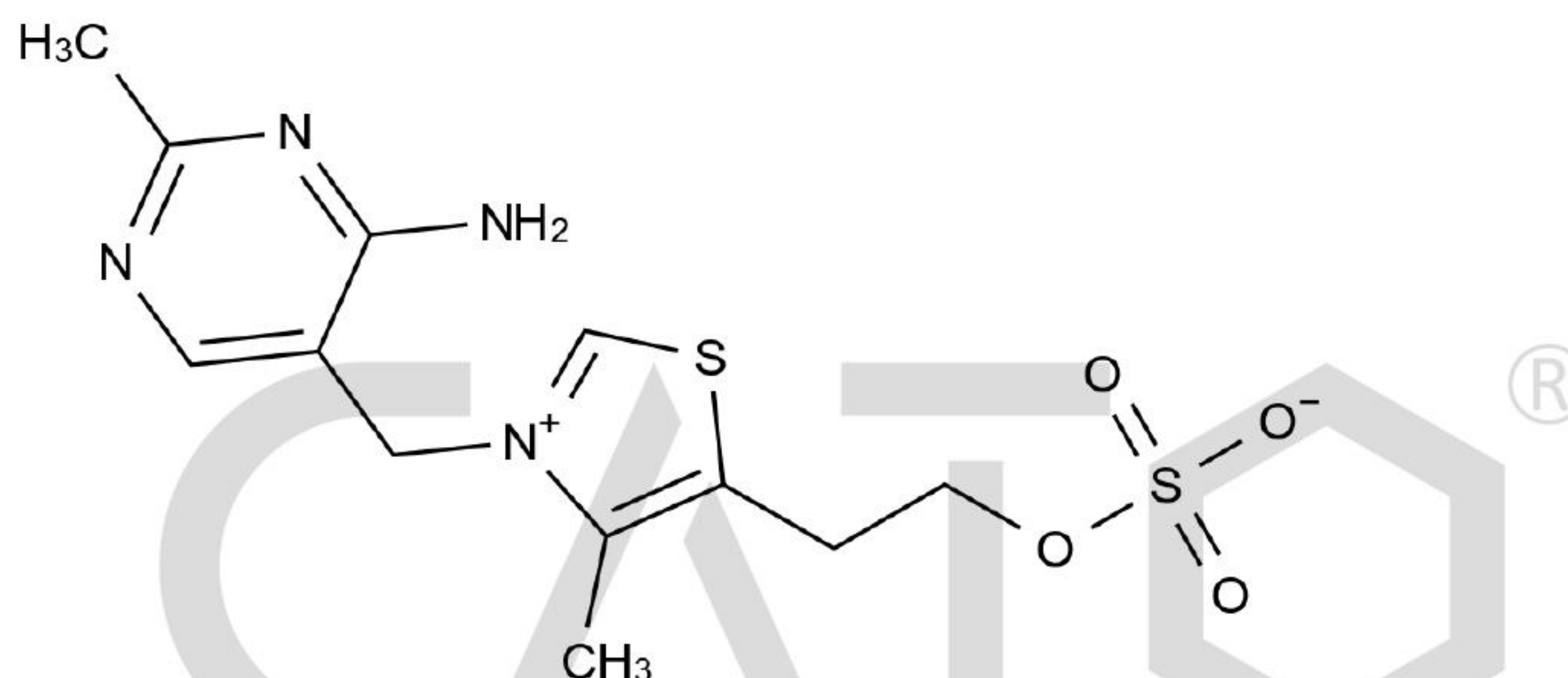


Certificate of Analysis

Reference Material & Standard

Product Name:	Thiamine Nitrate EP Impurity A	Catalogue Number:	C4X-18733
Synonyms:	N/A	Lot Number:	0828-RG-0011
CAS Number:	2380-61-2	Expiry Date:	Aug 27, 2029
Molecular Formula:	C ₁₂ H ₁₆ N ₄ O ₄ S ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	344.41	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	96.775%
Residue on Ignition	TGA	0.3642%
Loss On Drying	TGA	1.7714%
Assay		94.7%

Comment:

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

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

Residue on Ignition and Loss On Drying 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: Oct 23, 2025

Date: Oct 24, 2025

Date: Oct 24, 2025



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