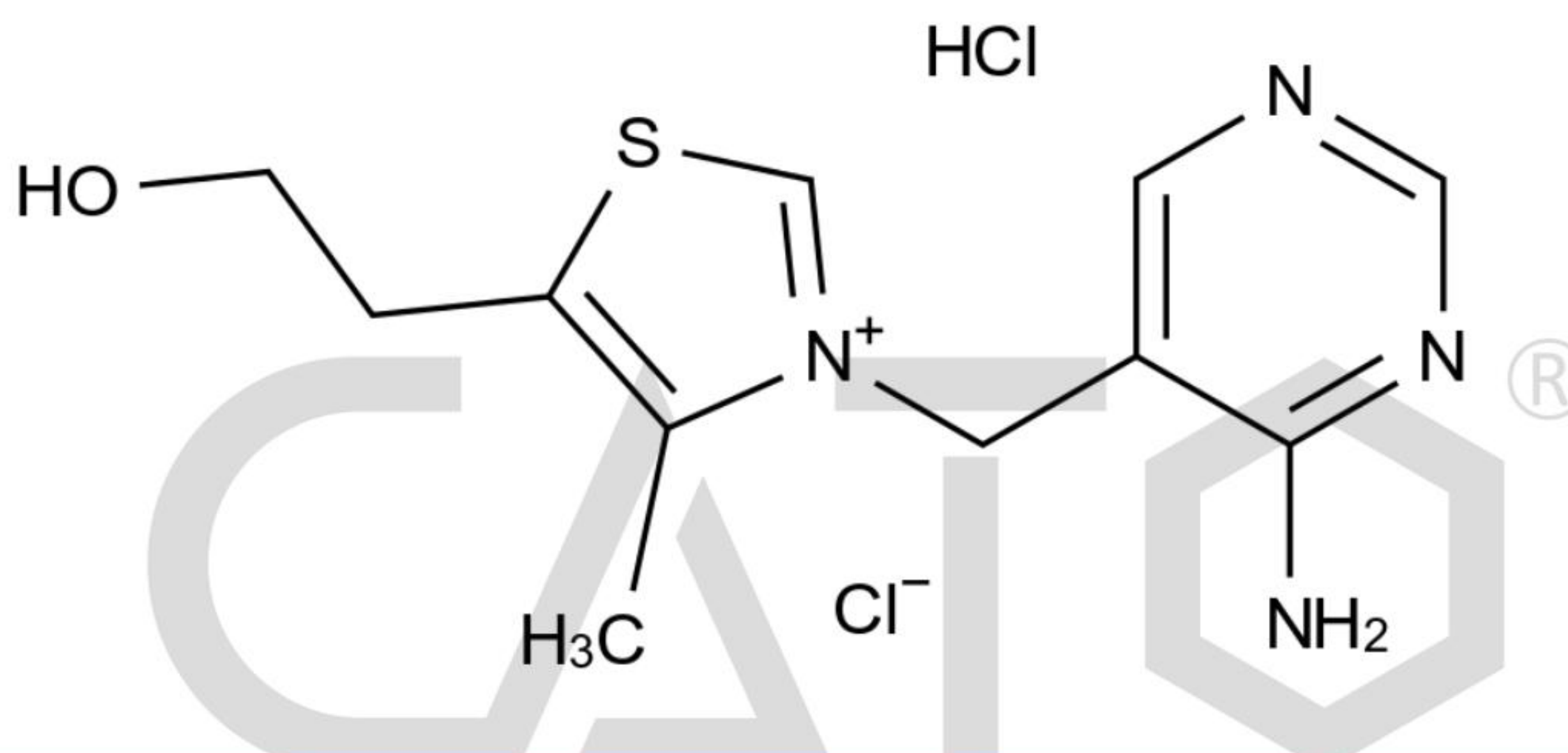


Certificate of Analysis

Reference Material & Standard

Product Name:	Thiamine EP impurity B HCl	Catalogue Number:	C4X-187357
Synonyms:	N/A	Lot Number:	0805-RH-0062
CAS Number:	49614-72-4	Expiry Date:	Jun 17, 2030
Molecular Formula:	C ₁₁ H ₁₅ N ₄ OS HCl Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	251.33 36.46 35.45	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.110%
Water Content	Karl Fischer	1.87%
Residual Solvents	NMR	0.21% methanol
Assay		96.1%

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:

Reviewed by:

Approved by General Manager:

Date: Aug 06, 2026

Date: Aug 07, 2026

Date: Aug 07, 2026



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