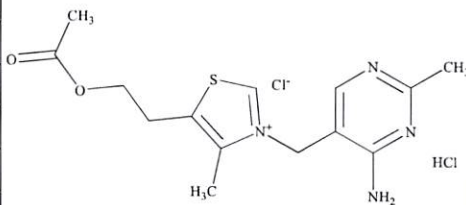


Certificate of Analysis



Certificate No.: 20260226006

Date: February 26, 2026

Retest date: February 26, 2029

Compound Name:	Thiamine EP Impurity G Chloride HCl		
Synonyms:	5-(2-acetoxyethyl)-3-((4-amino-2-methylpyrimidin-5-yl)methyl)-4-methylthiazol-3-ium, chloride, hydrochloride (1:1:1)		
TLC Catalogue Number:	T-848		
CAS Number:	1037-29-2		
Alternate CAS Number:	130967-52-1 (free cation)		
Molecular Weight:	307.39 35.45 36.46		
Molecular Formula:	C ₁₄ H ₁₉ N ₄ O ₂ S. Cl. HCl		
Source:	TLC Pharmaceutical Standards		
Source Lot No.:	5812-075A7		
Storage Conditions:	Hygroscopic, store at 2-8 °C		
Solubility:	Methanol, DMSO, Water		

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.8%
Impurity (HPLC)	RT 6.32, 0.22%	
Water Content (KF)	N/A	7.9%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 85.0%	91.9%
Recommendation:	Release. The compound contains 0.2% Thiamine Chloride HCl (RT 6.32, TLC No. T-841) according to its HPLC.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		02/26/2026
Approved by:	Quality Assurance		02/26/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.