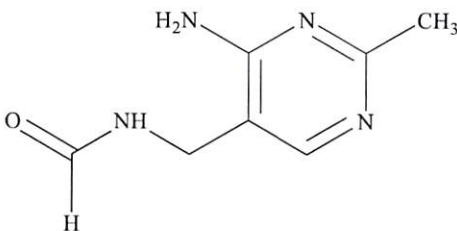


Certificate of Analysis

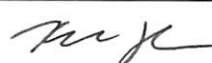

Certificate No.: **20260612020**

Date: June 12, 2026

Retest date: June 5, 2029

Compound Name:	Thiamine Impurity 20		
Synonyms:	<i>N</i> -((4-amino-2-methylpyrimidin-5-yl)methyl)formamide		
TLC Catalogue Number:	T-8444		
CAS Number:	1886-34-6		
Alternate CAS Number:	N/A		
Molecular Weight:	166.18		
Molecular Formula:	C ₇ H ₁₀ N ₄ O		
Source:	TLC Pharmaceutical Standards		
Source Lot No.:	7471-022A4		
Storage Conditions:	Store at 2-8 °C		
Solubility:	Methanol, DMSO, Water		

Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.3%
Impurity (HPLC)	RT 3.08, 1.22%; RT 5.98, 0.49%	
Water Content (KF)	N/A	0.3%
Residual Solvents (NMR)	0.4% methanol	
Assay (%)	Not less than 90.0%	97.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/12/2026
Approved by:	Quality Assurance		06/12/2026

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