NATURE SCIENCE TECHNOLOGIES

E-mail: inquiries@nstchemicals.com

nstchemicals.com

Phone: +371 24220280

CERTIFICATE OF ANALYSIS

Thiamine monophosphate chloride dihydrate

LOT EX0396

Catalog No.: NST-10-96

CAS No.: 273724-21-3

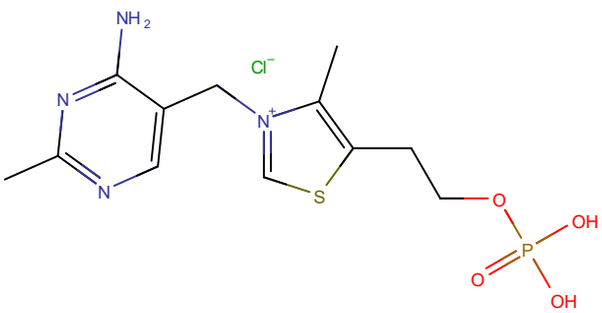
Molecular formula: $C_{12}H_{18}ClN_4O_4PS \cdot 2H_2O$

MW: 416.82

Manufacturing date: 20.05.2026

Analysis date: 30.06.2026

Shelf life: 24 months



No.	Parameter	Specification	Method	Results
1.	Appearance	Powder	Visual	Conforms
2.	Color	White to off-white	Visual	Conforms
3.	Identification	Conforms	IR	Conforms
4.	Solubility	50 mg/ml water, colorless to very faint yellow, clear	Visual	Conforms
5.	Purity	≥99.0 %	HPLC	99.91 %
6.	Heavy Metals	≤10 ppm	ICP-MS	Conforms
7.	Lead	≤2 ppm	ICP-MS	Conforms
8.	Arsenic	≤1 ppm	ICP-MS	Conforms
9.	Mercury	≤0.1 ppm	ICP-MS	Conforms
10.	Cadmium	≤1 ppm	ICP-MS	Conforms
11.	TPC	$<10^3$ CFU/g	USP <2021>	Conforms

12.	TYMC	$<10^2$ CFU/g	USP <2021>	Conforms
13.	*E. Coli*	Absent	USP <2022>	Conforms
14.	*Salmonella*	Absent	USP <2022>	Conforms
15.	*Staphylococcus*	Absent	USP <2022>	Conforms

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored

Issued by
Nature Science Technologies Ltd.

Signature:



Date: 30.06.2026

This Certificate of Analysis is based on the manufacturer's quality control documentation for the referenced batch.