NATURE SCIENCE TECHNOLOGIES

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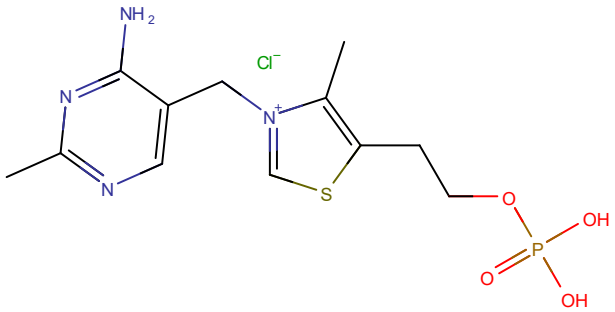
QUALITY SPECIFICATION

Thiamine monophosphate chloride dihydrate



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

Shelf life: 24 months

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

No.	Parameter	Specification	Method
12.	TYMC	$<10^2$ CFU/g	USP <2021>
13.	*E. Coli*	Absent	USP <2022>
14.	*Salmonella*	Absent	USP <2022>
15.	*Staphylococcus*	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat
Stability: 24 months when properly stored