

CERTIFICATE OF ANALYSIS

PRODUCT NAME : THIAMINE HYDROCHLORIDE FOR BIOCHEMISTRY (VITAMIN B₁)

CAS No. : 67-03-8

Mol. Formula : C₁₂H₁₇N₄OSCLHCl

Mol. WT : 337.27

Date of Analysis : 17/09/24

Product code : 19400

Batch No. : MCR-31929

Mfd. : Sept. 2024

Exp. : Aug. 2029

S.R	Test	Specification	Observation
1	Description	White or almost white, crystalline powder or powder or small colourless crystals, odour, slight and characteristic.	White powder.
2	Identification	B) Gives blue fluorescence C) Gives reaction of chlorides	Complies
3	pH (2.5% w/v aq. solution)	2.7 - 3.3	3.02
4	Related substance : Impurity A Impurity B Impurity C Any unspecified impurities Total impurity	NMT 0.15% NMT 0.3% NMT 0.15% NMT 0.1% NMT 0.5%	0.03% 0.022% 0.024% 0.016% 0.14%
5	Heavy metals	NMT 20 ppm	< 20 ppm
6	Nitrates	No brown ring is produced.	Complies
7	Sulphates	NMT 300 ppm	< 300 ppm
8	Sulphated Ash	NMT 0.1%	0.042%
9	Loss on Drying (at 105⁰C)	NMT 5.0%	0.21%
10	Assay (calculated with reference to the dried substance)	NLT 98.5 % & NMT 101.5%	99.58%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]



**CHEMIST
(Shruti)**

[QC Incharge]



**HEAD-QUALITY ASSURANCE
(G.G.Salian)**

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