

CERTIFICATE OF ANALYSIS

Product name: Vitamin B₁ (Thiamine Hydrochloride)

Batch No.: TH24013014

Manufacturing date	Jan 6, 2024	Reporting date	Jan 10, 2024
Retest date	Jan 5, 2027	Article No.	07112
Package	25 kg per drum	Package size	Φ410 × 450 (mm)
Ref. pharmacopoeia(s)	BP2024, USP2024	Quantity	1,000 kg

Test Item	Specification	Result
Appearance	White or almost white, crystalline powder or colourless crystals	White crystalline powder
Identification	A: IR absorption; C: Reaction (a) of chlorides.	Comply
Appearance of solution	Clear, not more intense than Y ₁ or GY ₁	Comply
pH	2.7 ~ 3.3	3.0
Water	≤5.0%	3.39%
Sulphated ash	≤0.1%	0.04%
Sulphates	≤300 ppm	<300 ppm
Related substances		
- Impurity A	≤0.15%	<0.05%
- Impurity B	≤0.3%	Not detected
- Impurity C	≤0.15%	Not detected
- Unspecified impurity	≤0.10%	<0.05%
- Total impurities	≤0.5%	<0.05%
- Disregard limit: 0.05%		
Assay (on anhydrous basis)	98.5% ~ 101.0%	99.9%
Identification	A: IR absorption; B: Tests of chloride.	Comply
Absorbance of solution	≤0.025	0.003
Limit of nitrate	No brown ring produced at the junction of the two layers.	Comply
pH	2.7 ~ 3.4	3.2
Water	≤5.0%	3.39%
Residue on ignition	≤0.2%	0.04%
Related compounds	≤1.0%	0.04%
Residual solvent		
- Methanol	≤0.8%	0.0009%
- Ethanol	≤0.5%	0.0165%
Assay (on anhydrous basis)	98.0% ~ 102.0%	99.6%
Conclusion:	This batch complies with the specification of BP2024 and USP2024.	
Remark:	Preserve in a tight non-metallic container, protected from light. Please consume the product within a short period once opened.	

Reported by: 刘勤东

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