CERTIFICATE OF ANALYSIS

Product Name:	**Vitamin B1 (Thiamine Hydrochloride)**		
CAS No.:	59-43-8	Ref. Standard:	USP 2021
Batch No.:	20220228	Manuf. Date:	Feb. 28, 2022
Quantity:	1000kg	Expiry Date:	Feb. 27, 2025
Storage Condition:	Preserve in tight, light-resistant container at controlled room temperature dry place.		

Item	Specification	Result
Assay (on anhydrous basis)	98.0%~ 102.0%	99.4%
Appearance	White or almost white,crystalline powder or colourless crystals	White or almost white,crystalline powder or colourless crystals
Identification		
A:IR absorption	Concordant with the reference spectrum	Conforms
B: Tests of Chloride	Conform to USP	Conforms
Absorbance of solution	≤0.025	0.018
pH	2.7~3.4	3.2
Water	≤5.0%	3.39%
Limit of Nitrate	No brown ring produced at the junction of the two layers.	Conforms
Related compounds	≤1.0%	0.02%
Residue on ignition	≤0.2%	0.01%
Residual solvent	Methanol ≤0.3% Ethanol ≤0.5%	0.0037% 0.0004%
Heavy metals	≤10ppm	Conforms
Total plate count	≤1000cfu/g	Conforms
Mold and Yeast	≤100cfu/g	Conforms
Conclusion	Conforms to USP2021 standard	

Tested by: Tiantian Wang Checked by: Xiao Wang Approved by: Yulian Liu

Xi'an Natural Field Bio-technique Company Limited Inspection

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