



大连汉德姆精细化学品有限公司

**DALIAN HANDOM CHEMICALS CO.,LTD.**

## Certificate of Analysis

**Product Name:** Vitamin B<sub>1</sub> (Thiamine Hydrochloride)

**CAS No.:** 67-03-8

**Molecular Formula:** C<sub>12</sub>H<sub>17</sub>ClN<sub>4</sub>OS·HCl

**Molecular Weight:** 337.29

**Batch Number:** HDC20230107

**Batch Quantity:** 1000kg

**Manufacturing Date:** Jan 7<sup>th</sup>, 2023

**Retest Date:** Jan 6<sup>th</sup>, 2026

**Report Date:** Jan 8<sup>th</sup>, 2023

**Packing Size:** 25kg/Drum

Test Items		Specifications	Test Results
Appearance		White or almost white, crystalline powder or colourless crystals	Conforms
Identification	A: Spectroscopic Identification Tests - Infrared Spectroscopy	Concordant with the reference spectrum	Conforms
	B: Identification Tests - General Chloride	Conforms to USP2021	Conforms
Limit of Nitrate		No brown ring is produced at the junction of the two layers	Conforms
Absorbance of Solution		Not more than 0.025	0.012
pH Value		2.7 ~ 3.4	3.2
Water		Not more than 5.0%	2.4%
Related Compounds		Not more than 1.0%	Conforms
Residue on Ignition		Not more than 0.2%	0.04%
Assay		98.0% ~ 102.0%	99.2%

**Conclusion:** The testing results of this batch are complied with the Standard of USP2021.

**Storage Conditions:** Preserved in unopened original containers in a cool dry place before using; kept away from direct sunlight, heat and moisture.