

## Certificate of Analysis

Product Name: **VITAMIN B1 Thiamine Hydrochloride(VB1 HCL)**

Batch No.: **TR20250314** Quantity: **10,000 KGS**

Production Date: **Mar 14-2025** Expiry Date: **Mar 14-2027**

| Items                  | Unit    | Standard                                                                                      | Results                         |
|------------------------|---------|-----------------------------------------------------------------------------------------------|---------------------------------|
| Appearance             | ----    | White or almost white crystals or crystalline powder                                          | Almost white crystalline powder |
| Solubility *           | ----    | Sparingly soluble in water; Slightly soluble in alcohol; very slightly soluble in chloroform. | Conform                         |
| Identification *       | ----    | Meet the requirement                                                                          | Conform                         |
| Assay                  | %       | 98.0 ~ 102.0 (on the dried basis)                                                             | 99.9                            |
| pH                     | ----    | 6.0 ~ 7.5                                                                                     | 7.2                             |
| Loss on Drying         | %       | ≤1.0                                                                                          | 0.24                            |
| Residue on Ignition *  | %       | ≤0.2                                                                                          | 0.04                            |
| Chloride and Sulfate * | %       | ≤0.06                                                                                         | < 0.06                          |
| Related Compounds *    | %       | ≤1.0                                                                                          | 0.56                            |
| Residual Solvent *     | ppm     | ≤3000                                                                                         | ND                              |
| Lead *                 | mg/kg   | ≤2                                                                                            | < 2                             |
| Arsenic*               | mg/kg   | ≤1                                                                                            | < 1                             |
| Total Plate Count*     | cfu/g   | ≤1000                                                                                         | < 10                            |
| Yeast and Mold*        | cfu/g   | ≤100                                                                                          | < 10                            |
| Escherichia Coli*      | MPN/g   | Negative                                                                                      | Negative                        |
| Coliforms*             | MPN/g   | Negative                                                                                      | Negative                        |
| Staphylococcus Aureus* | cfu/g   | Negative                                                                                      | Negative                        |
| Salmonella*            | cfu/25g | Negative                                                                                      | Negative                        |
| Appearance             | ----    | White or almost white crystals or crystalline powder                                          | Almost white crystalline powder |
| Solubility *           | ----    | Sparingly soluble in water; Slightly soluble in alcohol; very slightly soluble in chloroform. | Conform                         |
| Identification *       | ----    | Meet the requirement                                                                          | Conform                         |
| Assay                  | %       | 98.0 ~ 102.0 (on the dried basis)                                                             | 99.9                            |
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| Total Plate Count*     | cfu/g   | ≤1000    | < 10     |
| Yeast and Mold*        | cfu/g   | ≤100     | < 10     |
| Escherichia Coli*      | MPN/g   | Negative | Negative |
| Coliforms*             | MPN/g   | Negative | Negative |
| Staphylococcus Aureus* | cfu/g   | Negative | Negative |
| Salmonella*            | cfu/25g | Negative | Negative |

**CONCLUSION:** This batch of Vitamin B1 Thiamine Mononitrate meets the requirements of USP2024 and the additional test items.

Note: 1 The items labelled with \* are tested at regular intervals, corresponding data are the test data of the other inspection batch, measured data not for this batch. 2 Assay is analysed based on BP.

**PACKING:** 25 KGS/

**STORAGE:** Stored in a cool,dry environment,strictly prohibited storing and shipping with harmful toxic