

## Certificate of Analysis

Product Name: **Thiamine Mononitrate**  
 Carrier: **None**  
 Country of Origin: **China**  
 Batch Number: **Varies**  
 Manufacture Date: **Varies**  
 Retest Date: **Varies**

## Test Results Obtained by PureBulk

| ITEMS                       | SPECIFICATIONS                     | RESULTS   |
|-----------------------------|------------------------------------|-----------|
| Thiamine Mononitrate (HPLC) | ≥98%                               | 99.40%    |
| Aerobic Plate Count         | ≤1000 cfu/g                        | <20 cfu/g |
| Coliforms                   | ≤100 cfu/g                         | <20 cfu/g |
| <i>E. Coli</i>              | Negative                           | Absent    |
| <i>Staph aureus</i>         | Negative                           | Absent    |
| Yeast & Mold                | ≤100 cfu/g                         | <20 cfu/g |
| <i>Salmonella</i>           | Negative                           | Absent    |
| <i>Pseudo. aeruginosa</i>   | Negative                           | Absent    |
| Conclusion (PureBulk):      | This product conforms to standards |           |

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

| ITEMS                      | SPECIFICATIONS  | RESULTS                  |
|----------------------------|---|--------------------------|
| Appearance                 | White or almost white crystalline powder  | White crystalline powder |
| Identification             | (1) should be positive reaction<br>(2) Consistent with the reference IR spectra | Conforms                 |
| pH                         | 6.8~7.5   | 7.4                      |
| Appearance of solution     | Clear, not more intense than Y7   | Conforms                 |
| Pb                         | ≤2 ppm  | <2 ppm                   |
| Chloride (Cl)              | ≤300 ppm  | <300 ppm                 |
| Loss on Drying             | ≤1.0%   | 0.18%                    |
| Residue on Ignition        | ≤0.1%   | 0.04 %                   |
| <b>Residual Solvents</b>   | ~   | ~                        |
| -Methanol                  | ≤0.3%   | <0.3%                    |
| -Ethanol                   | ≤0.5%   | <0.5%                    |
| Chromatographic Purity     | ≤1.0%   | 0.2%                     |
| <b>Related Substances</b>  | ~   | ~                        |
| -Impurity A                | ≤0.15%  | 0.08%                    |
| -impurity B                | ≤0.6%   | 0.01%                    |
| -Impurity C                | ≤0.4%   | 0.04%                    |
| -Any Impurity              | ≤0.1%   | 0.02%                    |
| -Total Impurities          | ≤1.0%   | 0.21%                    |
| Conclusion (Manufacturer): | This product conforms to enterprise standards                                   |                          |

**Additional Information:** Non-Allergen || BSE/TSE Free || Vegan/Vegetarian

**Storage Conditions:** **Keep in sealed container under 25°C.**  
**Keep away from strong light, heat and moisture.**

*Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.*

*Verified By: Ann Foote / Candace Gibson / Nicole Rammage*

( This document was produced electronically and is valid without signature. )