

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 02071  
**Lot Number** 002518-01202303030  
**Product** **Thiamine hydrochloride**

Vitamin B1 hydrochloride

Aneurine hydrochloride

**CAS Number** 67-03-8  
**Molecular Formula** C<sub>12</sub>H<sub>17</sub>ClN<sub>4</sub>OS  
**Molecular Weight** 337.27

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**Appearance** White crystalline powder  
**Appearance of Solution** Clear no more color than reference solution Y7  
**Anion** Limit of nitrate : No brown ring is produced at the junction of the two layers.  
Sulphate (PO4) : < 300 ppm  
**Cation** Lead (Pb) : < 2 ppm  
Cadmium : < 1 ppm  
Mercury (Hg) : < 0.1 ppm  
Arsenic (As) : < 1 ppm  
**Water Content (Karl Fisher)** 1.8%  
**pH** 3  
**Yeast and Mold** < 100 cfu/g  
**UV Ratios** Absorbance of solution : 0.010  
**Residual Solvents** Methanol : < 0.3%  
Ethanol : < 0.5%  
**E. Coli, Salmonella, S.Aureus** Negative  
**Microbial Count** < 1000 cfu/g (TPC)

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<b>Related Substances</b>	Impurity A,B and C : 0.01% Any impurity : 0.01% Total impurities : 0.08%
<b>Residue On Ignition</b>	0.03%
<b>Assay (anhydrous basis)</b>	99.5%
<b>Grade</b>	Meets USP specification
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Identification : Test for A : Infrared spectrum : Conforms to structure Test for B : Passes test Chromatographic purity : 0.1%
<b>Country of Origin</b>	China
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager