



## Specification

### Thiamine HCl

**Catalog Number:** TH1002  
**CAS Number:** 67-03-8  
**Molecular Formula:**  $C_{12}H_{17}ClN_4OS \cdot HCl$   
**Molecular Weight:** 337.27  
**Storage:** 15°C – 30°C  
**Retest Period:** Three years from the date of manufacture

Test	Specification
Appearance <sup>1</sup>	White crystalline powder
Assay <sup>1</sup>	98.0 to 102.0%
Identification <sup>1</sup>	To meet requirements
Appearance of Solution (5%) <sup>1</sup>	To meet requirements
Absorbance of Solution (100mg/ml, 400nm)	≤ 0.025
pH (10mg/mL) <sup>1</sup>	2.7 to 3.4
Moisture (LOD) <sup>1</sup>	≤ 5.0%
Residue on Ignition <sup>1</sup>	≤ 0.20%
Sulfate	≤ 0.03%
Chromatographic Impurity <sup>1</sup>	≤ 1.0%
Related Substance <sup>1</sup>	To meet requirements
Limit of Nitrate <sup>1</sup>	To meet requirements
Residual Solvents <sup>1</sup>	To meet requirements
Heavy Metals	≤ 10ppm
Lead	≤ 2ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
<i>S. aureus</i>	Negative

<sup>1</sup>This lot meets the specifications for USP39.

Approved:

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