

## Certificate of Analysis

Date of Testing: 2022-09-16 16:36:18

Date of Next Testing: 2026-09-15 16:36:18

Product Name: **Thiamine hydrochloride**

CAS Number: 67-03-8

Specifications & Purity: for plant cell culture

Lot #: I2212364

SKU #: **T104106**

Version: **0**

Analysis #: **117615**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	3.66 %
Purity(HPLC)	98-100 (%)	99.82500 %
Appearance (T104106)	White to Off-White to Pale Cream to Pale Yellow Crystals or Powder or Crystalline Powder or Solid or Chunks	White to Off-White to Pale Cream to Pale Yellow Crystals or Powder or Crystalline Powder or Solid or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear	pass	Pass
colorless ,50 mg/ml in water		
Plant cell culture test	pass	Pass



John Su  
QA & QC Manager