

Certificate of Analysis

Date of Testing: 2023-11-29 13:36:03

Date of Next Testing: 2027-11-28 13:36:03

Product Name: **Thiamine hydrochloride**

CAS Number: 67-03-8

Specifications & Purity: Analytical Reagent,99.0%

Lot #: K2324458

SKU #: **T104100**

Analysis: **292218**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	1.60 %
Purity(HPLC)	99-100 (%)	99.74600 %
Nitrogen by Elemental Analysis (anhydrous)	16.1-17.1 (%)	16.25 %
Purity(Argentmetric Titration)(calcd.on anh.substance)	98.5-102.5 (%)	99.87 %
Carbon by Elemental Analysis(anhydrous)	42.1-43.4 (%)	42.25 %
Appearance (T104100)	white powder	White powder
IR spectrum	Conforms to structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear ,50 mg/ml in water	pass	Pass



John Su
QA & QC Manager