

Certificate of Analysis

Date of Testing: 2023-01-09 11:02:44
Date of Next Testing: 2027-01-08 11:02:44
Product Name: **Thiamine pyrophosphate**
CAS Number: 154-87-0
Specifications & Purity: 98%
Lot #: A2304573
SKU #: **T111202**
Analysis: 166934
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	29.2-32.1 (%)	30.76 %
Nitrogen by Elemental Analysis (anhydrous)	11-12.5 (%)	11.81 %
Water by Karl Fischer	0-2 (%)	0.15 %
Purity(Neutralization titration)	98-100 (%)	98.87 %
Purity(HPLC)	98-100 (%)	98.02000 %
Appearance (T111202)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless,clear to lightly hazy(50 mg/ml of H ₂ O)	pass	Pass



John Su
QA & QC Manager