

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-29 09:54:51

Date of Next Testing: 2027-11-28 09:54:51

Product Name: **Thiamine pyrophosphate**

CAS Number: 154-87-0

Specifications & Purity: $\geq 98\%$

Lot #: K2322050

SKU #: **T111202**

Version: **0**

Analysis #: **003569**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	29.2-32.1 (%)	30.98000 %
Nitrogen by Elemental Analysis (anhydrous)	11-12.5 (%)	11.89000 %
Water by Karl Fischer	0-2 (%)	0.14230 %
Purity(Neutralization titration)	98-100 (%)	98.42000 %
Purity(HPLC)	98-100 (%)	98.01300 %
Appearance (T111202)	White to Off-White Powder	White to Off-White Powder
Solubility,Colorless,clear to lightly hazy(50 mg/ml of H ₂ O)	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager