

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-15 14:21:18
Date of Next Testing: 2029-05-14 14:21:18
Product Name: **Thiamine pyrophosphate**
CAS Number: 154-87-0
Specifications & Purity: $\geq 98\%$
Lot #: E2509485
SKU #: **T111202**
Version: **0**
Analysis #: **501157**
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	29.2-32.1 (%)	31.16 %
Nitrogen by Elemental Analysis (anhydrous)	11-12.5 (%)	12.07 %
Purity(HPLC)	98-100 (%)	99.61200 %
Water by Karl Fischer	0-2 (%)	0.19 %
Purity(Neutralization titration)	98-100 (%)	99.49 %
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