

Certificate of Analysis

Date of Testing: 2024-08-06 10:40:38
Date of Next Testing: 2028-08-05 10:40:38
Product Name: **Thiamine pyrophosphate**
CAS Number: 154-87-0
Specifications & Purity: $\geq 98\%$
Lot #: G2426337
SKU #: **T111202**
Version: **0**
Analysis #: **386138**
Storage Temperature: Store at -20°C

| Parameter | Limit Values | Result |
|--|---------------------------|---------------------------|
| Carbon by Elemental Analysis(anhydrous) | 29.2-32.1 (%) | 30.86 % |
| Nitrogen by Elemental Analysis (anhydrous) | 11-12.5 (%) | 11.99 % |
| Water by Karl Fischer | 0-2 (%) | 0.18 % |
| Purity(Neutralization titration) | 98-100 (%) | 98.54 % |
| Purity(HPLC) | 98-100 (%) | 99.60000 % |
| 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