

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-06 10:05:02  
 Date of Next Testing: 2030-04-05 10:05:02  
 Product Name: **Thiamine pyrophosphate**  
 CAS Number: 154-87-0  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: D2601436  
 SKU #: **T111202**  
 Version: **0**  
 Analysis #: **670772**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$

| Parameter                                                                | Limit Values              | Result                    |
|--------------------------------------------------------------------------|---------------------------|---------------------------|
| Carbon by Elemental Analysis(anhydrous)                                  | 29.2-32.1 (%)             | 30.53000 %                |
| Nitrogen by Elemental Analysis (anhydrous)                               | 11-12.5 (%)               | 11.83800 %                |
| Water by Karl Fischer                                                    | 0-2 (%)                   | 0.32960 %                 |
| Purity(HPLC)                                                             | 98-100 (%)                | 100.00000 %               |
| Purity(Neutralization titration)                                         | 98-100 (%)                | 98.32000 %                |
| 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 <sub>2</sub> O) | pass                      | Pass                      |



John Su  
 QA & QC Manager