

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-08-19 14:20:03  
 Date of Next Testing: 2029-08-18 14:20:03  
 Product Name: **Phosphotungstic acid hydrate**  
 CAS Number: 12501-23-4  
 Specifications & Purity: AR  
 Lot #: H2511438  
 SKU #: **P100467**  
 Version: **2**  
 Analysis #: **546614**  
 Storage Temperature: Protected from light, Room temperature, Argon charged

| Parameter                   | Limit Values                          | Result                                |
|-----------------------------|---------------------------------------|---------------------------------------|
| Chloride (Cl-)              | 0-0.03 (%)                            | 0.00000 %                             |
| Sulfate(SO42-)              | 0-0.02 (%)                            | 0.00910 %                             |
| Sodium(Na)                  | 0-0.02 (%)                            | 0.00050 %                             |
| Iron(Fe)                    | 0-0.02 (%)                            | 0.00040 %                             |
| Insoluble matter            | 0-0.02 (%)                            | 0.00000 %                             |
| Calcium(Ca)                 | 0-0.02 (%)                            | 0.00000 %                             |
| (NO3)Nitrate                | 0-0.01 (%)                            | 0.00000 %                             |
| Heavy metal (as Pb)         | 0-0.002 (%)                           | 0.00000 %                             |
| Ammonia (NH4)               | 0-0.02 (%)                            | 0.02000 %                             |
| Appearance (P100467)        | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| X-Ray Diffraction           | Conforms to Structure                 | Conforms to Structure                 |
| Clarity of solution(1.5g/L) | Pass                                  | Pass                                  |



John Su  
QA & QC Manager