

Shanghai Aladdin Biochemical Technology Co., LTD  
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

## Certificate of Analysis

Date of Testing: 2025-01-07 19:12:34  
Date of Next Testing: 2029-01-06 19:12:34  
Product Name: **Perchloric acid**  
CAS Number: 7601-90-3  
Specifications & Purity: GR, 70.0-72.0%  
Lot #: A2503694  
SKU #: **P112072**  
Version: **3**  
Analysis #: **459948**

| Parameter                     | Limit Values  | Result      |
|-------------------------------|---------------|-------------|
| Manganese(Mn)                 | 0-0.00005 (%) | 0.00000 %   |
| Iron(Fe)                      | 0-0.00005 (%) | 0.00000 %   |
| Total Nitrogen                | 0-0.0005 (%)  | 0.00050 %   |
| Sulfate(SO42-)                | 0-0.0005 (%)  | 0.00000 %   |
| Free chlorine(Cl2)            | 0-0.0005 (%)  | 0.00050 %   |
| Insoluble matter in Ethanol   | 0-0.001 (%)   | 0.00000 %   |
| Chlorate(ClO3)                | 0-0.001 (%)   | 0.00100 %   |
| Phosphate(PO4)                | 0-0.0002 (%)  | 0.00000 %   |
| Silver(Ag)                    | 0-0.0005 (%)  | 0.00000 %   |
| Chloride (Cl-)                | 0-0.0001 (%)  | 0.00000 %   |
| Assay                         | 70.0-72.0 (%) | 71.78000 %  |
| Copper(Cu)                    | 0-0.1 (ppm)   | 0.00000 ppm |
| Ignition Residue (as sulfate) | 0-0.003 (%)   | 0.00000 %   |
| Lead(Pb)                      | 0-0.00001 (%) | 0.00000 %   |
| Color test (APHA)             | 0-10          | 0.00000     |
| Fluosilicate(SiO3)            | 0-0.005 (%)   | 0.00500 %   |
| (As)Arsenic                   | 0-0.05 (ppm)  | 0.00000 ppm |

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A handwritten signature in black ink that reads "John.Su".

John Su  
QA & QC Manager