

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

## Certificate of Analysis

Date of Testing: 2023-04-11 16:14:27  
Date of Next Testing: 2027-04-10 16:14:27  
Product Name: **Potassium hydroxide**  
CAS Number: 1310-58-3  
Specifications & Purity: Analytical Reagent, 85%  
Lot #: C2329659  
SKU #: **P112284**  
Analysis: **206474**

| Parameter                                            | Limit Values                   | Result                         |
|------------------------------------------------------|--------------------------------|--------------------------------|
| Fluosilicate(SiO <sub>3</sub> )                      | 0-0.02 (%)                     | 0.02000 %                      |
| Chloride (Cl <sup>-</sup> )                          | 0-0.01 (%)                     | 0.01000 %                      |
| (PO <sub>4</sub> )Phosphate                          | 0-0.005 (%)                    | 0.00500 %                      |
| Calcium(Ca)                                          | 0-0.005 (%)                    | 0.00500 %                      |
| Aluminum(Al)                                         | 0-0.005 (%)                    | 0.00500 %                      |
| Potassium Carbonate(K <sub>2</sub> CO <sub>3</sub> ) | 0-1.5 (%)                      | 0.57000 %                      |
| Assay                                                | 85-100 (%)                     | 95.27000 %                     |
| Nickel(Ni)                                           | 0-0.0005 (%)                   | 0.00050 %                      |
| Iron(Fe)                                             | 0-0.001 (%)                    | 0.00100 %                      |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )              | 0-0.005 (%)                    | 0.00500 %                      |
| Heavy metal (as Pb)                                  | 0-0.002 (%)                    | 0.00200 %                      |
| Clarity test (#)                                     | 0-4                            | 4.00000                        |
| Total Nitrogen                                       | 0-0.001 (%)                    | 0.00100 %                      |
| Sodium(Na)                                           | 0-2 (%)                        | 0.33000 %                      |
| Appearance (P112284)                                 | White Powder ,Flakes, or Chips | White Powder ,Flakes, or Chips |
| X-Ray Diffraction                                    | Conforms to Structure          | Conforms to Structure          |

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

John Su  
QA & QC Manager