

## Certificate of Analysis

Date of Testing: 2023-05-27 13:54:08  
Date of Next Testing: 2026-05-26 13:54:08  
Product Name: **Sodium chloride**  
CAS Number: 7647-14-5  
Specifications & Purity: BioReagent Plus, ≥99.5% (AT)  
Lot #: E23171122  
SKU #: **S433738**  
Analysis: **213733**

| Parameter                 | Limit Values  | Result    |
|---------------------------|---------------|-----------|
| Bromide(Br)               | 0-0.01 (%)    | 0.00000 % |
| Sulfate(SO4)              | 0-0.05 (%)    | 0.00000 % |
| Aluminum(Al)              | 0-0.0005 (%)  | 0.00 %    |
| Phospate(PO4)             | 0-0.0005 (%)  | 0.00 %    |
| Bismuth(Bi)               | 0-0.0005 (%)  | 0.00 %    |
| Lead(Pb)                  | 0-0.0005 (%)  | 0.00 %    |
| Arsenic(As)               | 0-0.0001 (%)  | 0.00000 % |
| Barium(Ba)                | 0-0.0005 (%)  | 0.00 %    |
| Cadmium(Cd)               | 0-0.0005 (%)  | 0.00 %    |
| Cobalt(Co)                | 0-0.0005 (%)  | 0.00 %    |
| Copper(Cu)                | 0-0.0005 (%)  | 0.00 %    |
| Strontium(Sr)             | 0-0.0005 (%)  | 0.00 %    |
| Zinc(Zn)                  | 0-0.0005 (%)  | 0.00 %    |
| Calcium(Ca)               | 0-0.002 (%)   | 0.00 %    |
| Chromium(Cr)              | 0-0.0005 (%)  | 0.00 %    |
| Magnesium(Mg)             | 0-0.0005 (%)  | 0.00 %    |
| Manganese(Mn)             | 0-0.0005 (%)  | 0.00 %    |
| Iron(Fe)                  | 0-0.0001(%)   | 0.00 %    |
| Lithium(Li)               | 0-0.0005 (%)  | 0.00 %    |
| Molybdenum(Mo)            | 0-0.0005 (%)  | 0.00 %    |
| Nickel(Ni)                | 0-0.0005 (%)  | 0.00 %    |
| PH(20 °C, 1 M in Water)   | 5-8           | 5.87      |
| Iodide(I)                 | 0-0.001 (%)   | 0.00000 % |
| Bacterial endotoxins      | 0-4.64 (EU/g) | 0.00 EU/g |
| Assay(Titration by AgNO3) | 99.5-100 (%)  | 99.98 %   |
| Potassium(K)              | 0-0.005 (%)   | 0.00 %    |

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| Parameter                                  | Limit Values                             | Result                                   |
|--|--|--|
| Appearance(S433738)                        | White powder to fine crystals with lumps | White powder to fine crystals with lumps |
| Solubility in H2O , Colorless , Clear , 1M | pass                                     | Pass                                     |
| X-Ray Diffraction                          | Conforms to Structure                    | Conforms to Structure                    |
| Microbiological detection                  | Pass                                     | Pass                                     |

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

John Su  
QA & QC Manager