

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Sodium sulfate decahydrate,ACS, 99.0%

ITEM NUMBER: S110746  
BRAND: Aladdin  
CAS NUMBER: 7727-73-3  
MDL NUMBER: MFCD00149189  
FORMULA: Na<sub>2</sub>SO<sub>4</sub> · 10H<sub>2</sub>O  
MOLECULAR WEIGHT: 322.20

| TEST                            | SPECIFICATION                    |         | TARGET VALUE |
|---------------------------------|----------------------------------|---------|--------------|
|                                 | MIN.                             | MAX.    |              |
| (K)Potassium                    | 0 %                              | 0.005 % | 0.005 %      |
| Appearance                      | colorless to white crystal solid |         |              |
| Ca (Calcium)                    | 0 %                              | 0.005 % | 0.005 %      |
| Chloride(Cl)                    | 0 ppm                            | 5 ppm   | 5 ppm        |
| Heavy metals (as Pb)            | 0 ppm                            | 3 ppm   | 3 ppm        |
| ICP:Confirms Na and S Component | Confirmed                        |         |              |
| Insoluble matter                | 0 %                              | 0.01 %  | 0.01 %       |
| Iron(Fe)                        | 0 ppm                            | 5 ppm   | 5 ppm        |
| Magnesium(Mg)                   | 0 %                              | 0.003 % | 0.003 %      |
| pH of a 5% solution at 25.0 ° C | 5.2                              | 9.2     | 9.2          |
| Phosphate(PO <sub>4</sub> )     | 0 ppm                            | 5 ppm   | 5 ppm        |
| Purity                          | 99 %                             | 100 %   | 100 %        |
| X-Ray Diffraction               | Conforms to Structure            |         |              |