

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-13 16:32:44  
 Date of Next Testing: 2027-10-12 16:32:44  
 Product Name: **Benzenesulfonic acid (BSA)**  
 CAS Number: 98-11-3  
 Specifications & Purity:  $\geq 99\%$ (HPLC),  $\geq 98\%$ (T)  
 Lot #: J2313291  
 SKU #: **B638546**  
 Version: **2**  
 Analysis #: **283265**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                               | Limit Values                       | Result                             |
|-----------------------------------------|------------------------------------|------------------------------------|
| Purity (Titration by NaOH)              | 97.5-102.5 (%)                     | 99.45000 %                         |
| Ignition Residue                        | 0-0.2 (%)                          | 0.05635 %                          |
| Water by Karl Fischer                   | 0-1 (%)                            | 0.10360 %                          |
| Purity(HPLC area)                       | 98-100 (%)                         | 99.10400 %                         |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> ) | 0-5000 (ppm)                       | 2842.00000 ppm                     |
| NMR Spectrum 1H                         | Conforms to structure              | Conforms to Structure              |
| Appearance(B638546)                     | White to Off-white Powder or Lumps | White to Off-white Powder or Lumps |
| Infrared spectrum                       | Conforms to Structure              | Conforms to Structure              |



John Su  
QA & QC Manager