

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-25 15:11:38  
 Date of Next Testing: 2026-06-24 15:11:38  
 Product Name: [2-(Methacryloyloxy)ethyl]dimethyl-(3-sulfopropyl) (SPE)  
 CAS Number: 3637-26-1  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: F23171076  
 SKU #: M164461  
 Version: 0  
 Analysis #: 218639  
 Storage Temperature: Room temperature

| Parameter                                                                    | Limit Values             | Result                   |
|------------------------------------------------------------------------------|--------------------------|--------------------------|
| Sulfur by Elemental Analysis                                                 | 11-11.9 (%)              | 11.38000 %               |
| Carbon by Elemental Analysis                                                 | 45.6-48.9 (%)            | 47.50000 %               |
| Purity(HPLC)                                                                 | 97-100 (%)               | 99.82000 %               |
| Nitrogen by Elemental Analysis                                               | 4.7-5.2 (%)              | 5.08000 %                |
| Appearance (M164461)                                                         | White Powder or Crystals | White Powder or Crystals |
| Proton NMR spectrum                                                          | Conforms to Structure    | Conforms to Structure    |
| Solubility in H <sub>2</sub> O , Colorless Clear , 25mg/ml, H <sub>2</sub> O | pass                     | Pass                     |



John Su  
QA & QC Manager