

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-10-31 16:53:23  
 Date of Next Testing: 2026-10-30 16:53:23  
 Product Name: **L-Glutamic acid monosodium salt hydrate**  
 CAS Number: 6106-04-3  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: J2228622  
 SKU #: **S108801**  
 Version: **0**  
 Analysis #: **142974**  
 Storage Temperature: Room temperature

| Parameter                                                                   | Limit Values                          | Result                                |
|-----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Purity(HPLC)                                                                | 99-100 (%)                            | 99.11700 %                            |
| Water by Karl Fischer                                                       | 0-10 (%)                              | 0.32140 %                             |
| Specific Rotation [α] <sub>20/D</sub> (c=10 in 2mol/L HCl)                  | 24-27 (°)                             | 24.61600 °                            |
| Appearance (S108801)                                                        | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum                                                         | Conforms to Structure                 | Conforms to Structure                 |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow ,Clear,100 mg/mL | pass                                  | Pass                                  |



John Su  
QA & QC Manager