

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-30 15:16:01  
 Date of Next Testing: 2027-01-29 15:16:01  
 Product Name: **L-Glutamic acid monosodium salt hydrate**  
 CAS Number: 6106-04-3  
 Specifications & Purity: for cell culture, suitable for insect cell culture, Moligand™, ≥99%  
 Lot #: A2314275  
 SKU #: **S108802**  
 Version: **0**  
 Analysis #: **158604**  
 Storage Temperature: Room temperature

| Parameter                                                                   | Limit Values                          | Result                                |
|-----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Water by Karl Fischer                                                       | 0-10 (%)                              | 7.00560 %                             |
| Purity(HPLC)                                                                | 99-100 (%)                            | 99.65900 %                            |
| Specific Rotation [α] <sub>20/D</sub> (c=10 in 2mol/L HCl)                  | 24-27 (°)                             | 24.18700 °                            |
| Appearance (S108802)                                                        | 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                                  |
| Cell Culture Test                                                           | pass                                  | Pass                                  |
| Insect cell culture test                                                    | pass                                  | Pass                                  |



John Su  
QA & QC Manager