

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-20 11:43:59

Date of Next Testing: 2026-09-19 11:43:59

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 #: I2214711

SKU #: **S108802**

Version: **0**

Analysis #: **121794**

Storage Temperature: Room temperature

| Parameter                                                                   | Limit Values                          | Result                                |
|-----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Water by Karl Fischer                                                       | 0-10 (%)                              | 8.19620 %                             |
| Purity(HPLC)                                                                | 99-100 (%)                            | 99.67100 %                            |
| Specific Rotation [α] <sub>20/D</sub> (c=10 in 2mol/L HCl)                  | 24-27 (°)                             | 24.43600 °                            |
| 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