

## Certificate of Analysis

Date of Testing: 2023-05-05 11:15:45  
Date of Next Testing: 2027-05-04 11:15:45  
Product Name: **D-Glutamic acid**  
CAS Number: 6893-26-1  
Specifications & Purity: 98%  
Lot #: D2319408  
SKU #: **G100444**  
Analysis: **108710**

| Parameter   | Limit Values              | Result                    |
|---|---------------------------|---------------------------|
| Purity(NonaqueousTitration)                             | 97.5-102.5 (%)            | 99.81%                    |
| Specific Rotation [α] <sub>20</sub> /D(c=5 in HCl(1+5)) | -33--30 (°)               | -30.27°                   |
| Appearance (G100444)                                    | White to Off-White Powder | White to Off-White Powder |
| Solubility in 0.5 M HCl , Colorless,Clear at 50 mg/ml   | pass                      | Pass                      |
| Proton NMR spectrum                                     | Conforms to structure     | Conforms to Structure     |



John Su  
QA & QC Manager