



## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME : L-GLUTAMIC ACID**

**CAS No : 56- 86- 0**  
**Mol. Formula : C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub>**  
**Mol. WT : 147.13**  
**Date of analysis : 09/01/23**

**Product code : 14685**  
**Batch No : MCR-27441**  
**Mfd. : Jan. 2023**  
**Exp : Dec. 2027**

| S. R | Test                                           | Specification                                  | Observation         |
|------|------------------------------------------------|------------------------------------------------|---------------------|
| 1    | Description                                    | White crystal or powder or crystalline powder. | White powder.       |
| 2    | Assay(acidimetric)                             | 99 % min                                       | 99.80%              |
| 3    | Ammonium (NH <sub>4</sub> )                    | 0.02% max                                      | <0.02%              |
| 4    | Specific rotation [ $\alpha$ ] <sup>20°D</sup> | +30 <sup>0</sup> to +32 <sup>0</sup>           | +31.99 <sup>0</sup> |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**CHEMIST**  
**(Priti)**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**  
**(G.G.Salian)**

**Note:** Computer generated image requires no sign.

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