



## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME: L-GLUTAMIC ACID**

**CAS No** : 56- 86- 0  
**Mol. Formula** :  $C_5H_9NO_4$   
**Mol. WT** : 147.13  
**Date of analysis** : 22/10/20

**Product code** : 14685  
**Batch No** : MCR-22245  
**Mfd.** : Oct. 2020  
**Exp.** : Sept. 2025

| S. R | Test                                      | Specification                                  | Observation               |
|------|-------------------------------------------|------------------------------------------------|---------------------------|
| 1    | Description                               | White crystal or powder or crystalline powder. | White crystalline powder. |
| 2    | Assay(acidimetric)                        | 99 % min                                       | 99.47%                    |
| 3    | Ammonium (NH <sub>4</sub> )               | 0.02% max                                      | <0.02%                    |
| 4    | Specific rotation $[\alpha]^{20^\circ}_D$ | +30 <sup>0</sup> to +32 <sup>0</sup>           | +31 <sup>0</sup>          |

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

**[Tested By]**

**[Q.C Incharge]**

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

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

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