



## **CERTIFICATE OF ANALYSIS**

Date: 28/01/17

**PRODUCT NAME : L-METHIONINE FOR BIOCHEMISTRY**

**CAS No** : 63-68-3  
**Mol. Formula** :  $C_5H_{11}NO_2S$   
**Mol. WT** : 149.21  
**Exp.** : Dec. 2021

**Product code** : 15900  
**Batch No** : MCR-13071  
**Mfd.** : Jan. 2017

| S. R | Test                                                  | Specification                         | Observation          |
|------|-------------------------------------------------------|---------------------------------------|----------------------|
| 1    | Assay (HClO <sub>4</sub> titration)                   | 99% min                               | 99.23%               |
| 2    | Specific rotation $[\alpha]^{20}_D$<br>(C= 2, 5N HCl) | + 22 <sup>0</sup> to +25 <sup>0</sup> | + 24.47 <sup>0</sup> |
| 3    | Heavy metals (as Pb)                                  | 0.001 % max                           | < 0.001 %            |
| 4    | Loss on drying at 110 <sup>0</sup> c                  | 0.5% max                              | 0.26%                |

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

**[Tested By]**

**[QC Incharge]**

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

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

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