



## **CERTIFICATE OF ANALYSIS**

**Date : 31/01/13**

**PRODUCT NAME : L- ASCORBIC ACID EXTRA PURE**

**CAS No : 50-81-7**  
**Mol. Formula : C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>**  
**Mol. WT : 176.13**

**Product code : 12480**  
**Batch No : MCR-6282**  
**Mfd. : Jan.2013**

| S. R | Test                                                                                    | Specification               | Observation          |
|------|-----------------------------------------------------------------------------------------|-----------------------------|----------------------|
| 1    | Assay (iodometric)                                                                      | 99%w/w min                  | 99.09%w/w            |
| 2    | Melting Point                                                                           | 190 -192 <sup>0</sup> C     | 191.3 <sup>0</sup> C |
| 3    | Iron (Fe)                                                                               | 0.001% max                  | < 0.001%             |
| 4    | Specific rotation [ $\alpha$ ] <sup>20</sup> <sub>D</sub><br>(C=10 in H <sub>2</sub> O) | +20.5 to +21.5 <sup>0</sup> | +20.9 <sup>0</sup>   |
| 5    | Heavy metals (as Pb)                                                                    | 0.001% max.                 | < 0.001%             |

**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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