



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME :  $\beta$  - CYCLODEXTRIN**

|                         |   |                     |                    |
|-------------------------|---|---------------------|--------------------|
| <b>CAS No</b>           | <b>: 7585-39-9</b>                                  | <b>Product code</b> | <b>: 14005</b>     |
| <b>Mol. Formula</b>     | <b>: C<sub>42</sub>H<sub>70</sub>O<sub>35</sub></b> | <b>Batch No</b>     | <b>: MCR-20529</b> |
| <b>Mol. WT</b>          | <b>: 1134.98</b>                                    | <b>Mfd.</b>         | <b>: Jan. 2020</b> |
| <b>Date of analysis</b> | <b>: 06/01/20</b>                                   | <b>Exp.</b>         | <b>: Dec. 2024</b> |

| S. R | Test  | Specification                            | Observation           |
|------|---|--|-----------------------|
| 1    | <b>Description</b>  | White powder                             | White powder.         |
| 2    | <b>Assay</b>  | 98% min                                  | 98.29%                |
| 3    | <b>Specific rotation <math>[\alpha]^{20}_D</math><br/>(C = 1.5, H<sub>2</sub>O)</b> | + 159 <sup>0</sup> to + 165 <sup>0</sup> | + 159.30 <sup>0</sup> |
| 4    | <b>Water (by KF)</b>  | 10 – 15%                                 | 11.79%                |

**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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