

## Certificate of Analysis

Date of Testing: 2022-09-07 16:50:20

Date of Next Testing: 2026-09-06 16:50:20

Product Name: **L-Rhamnose monohydrate**

CAS Number: 10030-85-0

Specifications & Purity: 99%

Lot #: I2205003

SKU #: **R108982**

Analysis: **126159**

| Parameter                                                       | Limit Values                             | Result                                   |
|-----------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Heavy metal (as Pb)                                             | 0-5 (ppm)                                | 3.24 ppm                                 |
| Specific Rotation [α] <sub>20</sub> /D(c=4 in H <sub>2</sub> O) | 7.5-8.5 (°)                              | 7.58 °                                   |
| Water by Karl Fischer                                           | 9-11 (%)                                 | 9.87 %                                   |
| Calcium(Ca)                                                     | 0-10 (ppm)                               | 2.28 ppm                                 |
| Ignition Residue (as sulfate)                                   | 0-0.15 (%)                               | 0.06 %                                   |
| Purity(HPLC)                                                    | 99-100 (%)                               | 99.86100 %                               |
| Melting point                                                   | 91-96 (°C)                               | 95.29000 °C                              |
| Appearance (R108982)                                            | White or light yellow crystalline powder | White or light yellow crystalline powder |
| Proton NMR spectrum                                             | Conforms to structure                    | Conforms to Structure                    |



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QA & QC Manager