

## Certificate of Analysis

Date of Testing: 2024-01-20 11:18:15

Date of Next Testing: 2028-01-19 11:18:15

Product Name: **L-Rhamnose monohydrate**

CAS Number: 10030-85-0

Specifications & Purity: 99%

Lot #: A2410340

SKU #: **R108982**

Analysis: **309753**

| Parameter                                                 | Limit Values                             | Result                                   |
|-----------------------------------------------------------|------------------------------------------|------------------------------------------|
| Heavy metal (as Pb)                                       | 0-5 (ppm)                                | 0.32 ppm                                 |
| Specific Rotation $[\alpha]_{20/D(c=4 \text{ in } H_2O)}$ | 7.5-8.5 (°)                              | 7.69°                                    |
| Water by Karl Fischer                                     | 9-11 (%)                                 | 10.01 %                                  |
| Calcium(Ca)                                               | 0-10 (ppm)                               | 1.15 ppm                                 |
| Ignition Residue (as sulfate)                             | 0-0.15 (%)                               | 0.01 %                                   |
| Purity(HPLC)                                              | 99-100 (%)                               | 99.76900 %                               |
| Melting point                                             | 91-96 (°C)                               | 95.97000 °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