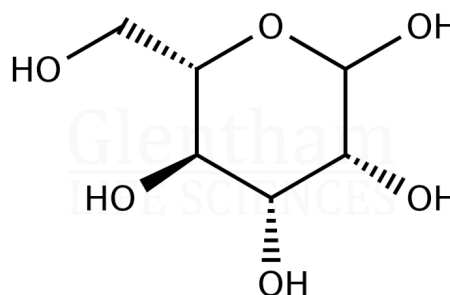


## Certificate of Analysis

|               |               |
|---------------|---------------|
| Product Name  | L-(-)-Mannose |
| Glentham Code | GC8426        |
| CAS Number    | 10030-80-5    |
| EINECS        | 233-080-2     |
| Numéro MDL    | MFCD00063884  |
| PubChem SID   | 310276045     |
| Batch Number  | 314PAF        |

|                   |                |
|-------------------|----------------|
| Molecular Weight  | 180.16         |
| Molecular Formula | $C_6H_{12}O_6$ |
| Storage Temp.     | +20°C          |



| Property                                        | Specification                                   | Batch 314PAF                |
|-------------------------------------------------|-------------------------------------------------|-----------------------------|
| Physical Description                            | White to off-white powder                       | White powder                |
| Solubility (10% in water)                       | Clear, colourless to very faint yellow solution | Clear, colourless solution* |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | -13.5 - -15.5 ° (c=4, water)                    | -14.0 °                     |
| Residue on Ignition                             | ≤ 0.25%                                         | 0.01%                       |
| Assay (HPLC)                                    | ≥ 98.0%                                         | 99.2%                       |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2020-01-18 |
| Re-Test Date          | 2028-12-02 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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