

# Certificate of analysis

|                   |                              |
|-------------------|------------------------------|
| Product No.:      | A10842                       |
| Product:          | D-(+)-Mannose, 99%           |
| Lot No.:          | 10143715                     |
|                   |                              |
| Appearance:       | White powder                 |
| Melting Point:    | 128-133°C                    |
| Assay (HPLC):     | 99.8%                        |
| Loss on Drying:   | 0.2%                         |
| Optical rotation: | +14.0° (c=10 in water, 24hr) |

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