

## Certificate of Analysis

Date of Testing: 2025-08-22 09:08:20

Date of Next Testing: 2027-08-22 09:08:20

Product Name: **Maltose solution**

CAS Number: 69-79-4

Specifications & Purity: BioReagent, for molecular biology, ~20% in H<sub>2</sub>O

Lot #: H2512490

SKU #: **M120965**

Version: **2**

Analysis #: **563301**

Storage Temperature: Argon charged

| Parameter                             | Limit Values          | Result                |
|---------------------------------------|-----------------------|-----------------------|
| Refractive index n <sub>20</sub> /D   | 1.357-1.363           | 1.36                  |
| Concentration                         | 19-21 (%)             | 20.00 %               |
| Aluminium(Al)                         | 0-1 (ppm)             | 0.35000 ppm           |
| Barium(Ba)                            | 0-1 (ppm)             | 0.35 ppm              |
| Bismuth(Bi)                           | 0-1 (ppm)             | 0.35 ppm              |
| Calcium(Ca)                           | 0-20 (ppm)            | 2.37 ppm              |
| Cadmium(Cd)                           | 0-1 (ppm)             | 0.35 ppm              |
| Cobalt(Co)                            | 0-1 (ppm)             | 0.35 ppm              |
| Chromium(Cr)                          | 0-1 (ppm)             | 0.35 ppm              |
| Copper(Cu)                            | 0-1 (ppm)             | 0.35 ppm              |
| Iron(Fe)                              | 0-1 (ppm)             | 0.35 ppm              |
| Potassium(K)                          | 0-20 (ppm)            | 2.63 ppm              |
| Lithium(Li)                           | 0-1 (ppm)             | 0.35 ppm              |
| Magnesium(Mg)                         | 0-10 (ppm)            | 2.37 ppm              |
| Manganese(Mn)                         | 0-1 (ppm)             | 0.35 ppm              |
| Molybdenum(Mo)                        | 0-1 (ppm)             | 0.35 ppm              |
| Sodium(Na)                            | 0-20 (ppm)            | 2.56 ppm              |
| Nickel(Ni)                            | 0-1 (ppm)             | 0.35 ppm              |
| Lead(Pb)                              | 0-1 (ppm)             | 0.35 ppm              |
| Strontium(Sr)                         | 0-1 (ppm)             | 0.35 ppm              |
| Zinc(Zn)                              | 0-1 (ppm)             | 0.35 ppm              |
| Arsenic traces(MHS-AAS)               | 0-0.05 (ppm)          | 0.00 ppm              |
| Total sulfur as SO <sub>4</sub> (ICP) | 0-50 (ppm)            | 1.36 ppm              |
| Appearance (M120965)                  | Colorless liquid      | Colorless liquid      |
| Proton NMR spectrum                   | Conforms to Structure | Conforms to Structure |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager