

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-07 09:08:03

Date of Next Testing: 2026-06-06 09:08:03

Product Name: **Glycerol**

CAS Number: 56-81-5

Specifications & Purity:  $\geq 99.5\%$ (GC)

Lot #: F2204555

SKU #: **G116205****Analysis: 095329**

| Parameter                               | Limit Values  | Result   |
|---|---------------|----------|
| Fatty acids & esters (ml 0.1N NaOH/25g) | 0-0.2         | 0.00     |
| Color scale                             | 0-5           | 4.20     |
| Water by Karl Fischer                   | 0-0.3 (%)     | 0.12 %   |
| halogen compounds (as Cl)               | 0-5 (ppm)     | 0.71 ppm |
| Heavy metal (as Pb)                     | 0-1 (ppm)     | 0.28 ppm |
| Ash                                     | 0-0.01 (%)    | 0.00 %   |
| Esters                                  | $\geq 8$ (ml) | 8.50 ml  |
| Refractive index n <sub>20</sub> /D     | 1.47-1.475    | 1.47     |
| Density (20°C)                          | 1.26-1.265    | 1.26     |
| Purity(GC)                              | 99.5-100%     | 99.78 %  |
| Sugars <sub>2</sub>                     | Negative      | Negative |

John Su  
QA & QC Manager