

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---------------------|
| Date of Testing: | 2023-01-31 14:19:48 |
| Date of Next Testing: | 2027-01-30 14:19:48 |
| Product Name: | Glycerol |
| CAS Number: | 56-81-5 |
| Specifications & Purity: | reagent grade,99% |
| Lot #: | A2314148 |
| SKU # | G116203 |
| Analysis: | 180734 |

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| alkalinity(as OH-) | 0-0.03 | 0.00 |
| Acidity(as H+) | 0-0.05 | 0.00 |
| Heavy metal (as Pb) | 0-0.0001 (%) | 0.00 % |
| Sulfate(SO42-) | 0-0.0005 (%) | 0.00 % |
| Chloride (Cl-) | 0-0.0001 (%) | 0.00 % |
| Ignition Residue (as sulfate) | 0-0.001 (%) | 0.00 % |
| (As)Arsenic | 0-50 (%) | 30.00 % |
| Ammonia (NH4) | 0-0.0005 (%) | 0.00 % |
| Aliphatic ester(Glycerine three butyl acrylate) | 0-0.05 | 0.02 |
| Color scale | 0-10 | 6.00 |
| Assay | 99-100 (%) | 99.79 % |
| Appearance (G116203Form) | Liquid | Liquid |
| Appearance (G116203Color) | Colorless viscous | Colorless viscous |
| Cane sugar and glucose | pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Substances darkened by sulfuric acid | Pass | Pass |
| Substances reducing silver | pass | Pass |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager