

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-12 16:44:40

Date of Next Testing: 2029-09-11 16:44:40

Product Name: **γ -Valerolactone**

CAS Number: 108-29-2

Specifications & Purity: $\geq 98\%$

Lot #: I2508053

SKU #: **V106294**Version: **0**Analysis #: **542125**

| Parameter | Limit Values | Result |
|-------------------------------------|----------------------------------|----------------------------------|
| Refractive index n ₂₀ /D | 1.431-1.434 | 1.43 |
| Purity(GC) | 98-100 (%) | 99.90 % |
| Density (20°C) | 1.053-1.058 | 1.06 |
| Appearance (V106294) | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |

John Su
QA & QC Manager