

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-03-18 10:47:01

Date of Next Testing: 2029-03-17 10:47:01

Product Name: **δ-Valerolactone (DVL)**

CAS Number: 542-28-9

Specifications & Purity: ≥98%

Lot #: C2517624

SKU #: **V100560**

Version: **1**

Analysis #: **444322**

Storage Temperature: Store at -20°C

| Parameter                           | Limit Values               | Result                     |
|-------------------------------------|----------------------------|----------------------------|
| Purity(GC)                          | 98-100 (%)                 | 99.49000 %                 |
| Refractive index n <sub>20</sub> /D | 1.456-1.458                | 1.45660                    |
| Density (20°C)                      | 1.108-1.112                | 1.11000                    |
| Proton NMR spectrum                 | Conforms to Structure      | Conforms to Structure      |
| Appearance (V100560)                | Colorless to Yellow Liquid | Colorless to Yellow Liquid |

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

John Su  
QA & QC Manager