

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-29 10:37:19

Date of Next Testing: 2024-07-18 10:37:19

Product Name:  **$\gamma$ -Undecanolactone**

CAS Number: 104-67-6

Specifications & Purity:  $\geq 98\%$

Lot #: G2226418

SKU #: **U109751**

Version: **0**

Analysis #: **105244**

Storage Temperature: Room temperature

| Parameter                          | Limit Values                     | Result                           |
|------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20/D</sub> | 1.449-1.451                      | 1.45040                          |
| Density (20°C)                     | 0.939-0.948                      | 0.94200                          |
| Purity(GC)                         | 98-100 (%)                       | 98.87600 %                       |
| Appearance (U109751)               | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Infrared spectrum                  | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager