

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-11 16:39:17  
Date of Next Testing: 2028-04-10 16:39:17  
Product Name: **D-(-)-Pantolactone**  
CAS Number: 599-04-2  
Specifications & Purity: 99%  
Lot #: D2402403  
SKU #: **P122332**  
**Analysis:** **333819**  
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter   | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Purity(GC)  | 99-100 (%)            | 99.50%                |
| Specific Rotation [α] <sub>20</sub> /D(c=2 in H <sub>2</sub> O) | -53--49 (°)           | -49.27°               |
| Melting point   | 90-94 (°C)            | 90.01000 °C           |
| Appearance (P122332)  | White Solid           | White Solid           |
| Solubility in H <sub>2</sub> O                                  | Almost transparency   | almost transparency   |
| Infrared spectrum   | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager