

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-05-21 14:08:10  
 Date of Next Testing: 2030-05-20 14:08:10  
 Product Name: **1,3-Dimethylbarbituric acid**  
 CAS Number: 769-42-6  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: E2611621  
 SKU #: **D106283**  
 Version: **1**  
 Analysis #: **697972**  
 Storage Temperature: Room temperature

| Parameter                                                           | Limit Values                                       | Result                                             |
|---------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Purity (Titration by NaOH)                                          | 98.5-101.5 (%)                                     | 99.98000 %                                         |
| Ignition Residue                                                    | 0-0.1 (%)                                          | 0.06600 %                                          |
| Melting point                                                       | 122-125 (°C)                                       | 123.62000 °C                                       |
| Appearance (D106283)                                                | white to pale yellow Powder, Crystals and/or Chunk | white to pale yellow Powder, Crystals and/or Chunk |
| Solubility in hot H <sub>2</sub> O , Clear, Colorless to Faint pass |                                                    | Pass                                               |
| Yellow, 0.5g in 10mL                                                |                                                    |                                                    |
| Infrared spectrum                                                   | Conforms to Structure                              | Conforms to Structure                              |



John Su  
QA & QC Manager