

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-30 16:07:24  
 Date of Next Testing: 2026-11-20 16:07:24  
 Product Name: **laevulinic acid**  
 CAS Number: 123-76-2  
 Specifications & Purity: AR, Moligand™, ≥99%  
 Lot #: K2427180  
 SKU #: **L104281**  
 Version: **1**  
 Analysis #: **393574**  
 Storage Temperature: Protected from light, Room temperature, Desiccated, Cool

| Parameter                               | Limit Values                                 | Result                                       |
|-----------------------------------------|----------------------------------------------|----------------------------------------------|
| Purity(GC)                              | 99-100 (%)                                   | 99.32200 %                                   |
| Chloride (Cl-)                          | 0-0.005 (%)                                  | 0.00000 %                                    |
| Heavy metal (as Pb)                     | 0-20 (ppm)                                   | 0.24980 ppm                                  |
| Refractive index n <sub>20</sub> /D     | 1.436-1.442                                  | 1.44170                                      |
| Iron(Fe)                                | 0-10 (ppm)                                   | 0.00000 ppm                                  |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> ) | 0-0.01 (%)                                   | 0.00000 %                                    |
| Appearance (L104281)                    | Colorless to Yellow to Brown Liquid or Solid | Colorless to Yellow to Brown Liquid or Solid |
| Proton NMR spectrum                     | Conforms to Structure                        | Conforms to Structure                        |



John Su  
QA & QC Manager