

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-18 16:07:41

Date of Next Testing: 2027-04-17 16:07:41

Product Name: **Ethyl Levulinate**

CAS Number: 539-88-8

Specifications & Purity:  $\geq 99\%$

Lot #: D2310360

SKU #: **E117674**

Version: **0**

Analysis #: **038455**

Storage Temperature: Room temperature

| Parameter                          | Limit Values                     | Result                           |
|------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20/D</sub> | 1.42-1.424                       | 1.42210                          |
| Purity(GC)                         | 99-100 (%)                       | 99.26300 %                       |
| Density (20°C)                     | 1.012-1.016                      | 1.01200                          |
| Acid Value                         | 0-1 (mgKOH/g)                    | 0.25000 mgKOH/g                  |
| Appearance (E117674)               | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Infrared spectrum                  | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager