

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-20 18:07:44

Date of Next Testing: 2026-07-19 18:07:44

Product Name: **4-FORMYL-3,5-DIMETHYL-1H-PYRROLE-2-CARBOXYLIC ACID ETHYL ESTER**

CAS Number: 2199-64-6

Specifications & Purity: 97%

Lot #: G2315493

SKU #: **F168679**

Analysis: **060615**

Storage Temperature: Room temperature

| Parameter           | Limit Values          | Result                |
|---------------------|-----------------------|-----------------------|
| Purity(HPLC)        | 97-100 (%)            | 98.50010 %            |
| Melting point       | 141-149 (°C)          | 146.51000 °C          |
| Proton NMR spectrum | Conforms to structure | Conforms to Structure |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager