

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-01-19 09:17:01  
Date of Next Testing: 2028-01-18 09:17:01  
Product Name: **METHYL 2,4-DIOXO-4-(2-THIENYL)BUTANOATE**  
CAS Number: 57409-51-5  
Specifications & Purity: 97%  
Lot #: H1512182  
SKU #: **M123041**  
Version: **0**  
Analysis #: **311770**

Parameter	Limit Values	Result
Carbon by Elemental Analysis	49.2-51.1 (%)	50.72 %
Oxygen by Elemental Analysis	29.1-30.4 (%)	29.67 %
Purity	97-100 (%)	99.38 %
Appearance (M123041)	Yellow to Orange to Gold Powder,Crystals,granules	Yellow to Orange to Gold Powder,Crystals,granules
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager