

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-21 11:11:55  
 Date of Next Testing: 2027-03-20 11:11:55  
 Product Name: **4,4,4-Trifluoro-1-(4-methoxyphenyl)-1,3-butanedione**  
 CAS Number: 15191-68-1  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: C2310530  
 SKU #: **T162748**  
 Version: **1**  
 Analysis #: **186273**  
 Storage Temperature: Room temperature

| Parameter             | Limit Values                               | Result                                     |
|-----------------------|--------------------------------------------|--------------------------------------------|
| Purity(HPLC area)     | 98-100 (%)                                 | 98.06400 %                                 |
| Appearance(T162748)   | White to Orange to Green powder to crystal | White to Orange to Green powder to crystal |
| Proton NMR spectrum   | Conforms to Structure                      | Conforms to Structure                      |
| Fluorine NMR Spectrum | Conforms to structure                      | Conforms to Structure                      |



John Su  
QA & QC Manager