

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-07-23 14:25:26  
 Date of Next Testing: 2026-07-23 14:25:26  
 Product Name: **cis,cis-Muconic acid**  
 CAS Number: 1119-72-8  
 Specifications & Purity:  $\geq 97\%$ (HPLC)  
 Lot #: G2415282  
 SKU #: **I132987**  
 Version: **2**  
 Analysis #: **379062**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                      | Limit Values                                      | Result                                            |
|--------------------------------|---------------------------------------------------|---------------------------------------------------|
| Purity(HPLC)                   | 97-100 (%)                                        | 98.17000 %                                        |
| Purity(Titration by 0.1M NaOH) | 96.5-103.5 (%)                                    | 98.12000 %                                        |
| Proton NMR spectrum            | Conforms to Structure                             | Conforms to Structure                             |
| Appearance (I132987)           | White to Yellow or Light Brown Crystals or Powder | White to Yellow or Light Brown Crystals or Powder |
| LC-MS for identification       | Conforms                                          | Conforms                                          |



John Su  
QA & QC Manager