

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-09 09:32:39

Date of Next Testing: 2025-02-08 09:32:39

Product Name: **Chlorogenic acid**

CAS Number: 327-97-9

Specifications & Purity: Moligand™, ≥98%

Lot #: D2122132

SKU #: **C109404**

Version: **1**

Analysis #: **184994**

Storage Temperature: Room temperature, Argon charged

| Parameter                                                               | Limit Values              | Result                    |
|-------------------------------------------------------------------------|---------------------------|---------------------------|
| Water by Karl Fischer                                                   | 0-3.5 (%)                 | 1.56000 %                 |
| Purity(Neutralization titration)(calcd.on anh.substance)                | 98-100 (%)                | 98.30000 %                |
| Purity(HPLC)                                                            | 98-100 (%)                | 98.12200 %                |
| Specific Rotation [α] <sub>20/D</sub> (c=1 in H <sub>2</sub> O)         | -38--35 (°)               | -36.70000 °               |
| Appearance (C109404)                                                    | White to Off-White Powder | White to Off-White Powder |
| Solubility in EtOH , Faint Yellow to Dark Yellow,Clear to Hazy,25 mg/ml | pass                      | Pass                      |
| Infrared spectrum                                                       | Conforms to Structure     | Conforms to Structure     |
| Mass spectrum                                                           | Conforms to standard      | Conforms to standard      |



John Su  
QA & QC Manager