

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-02-22 16:27:08

Date of Next Testing: 2027-02-21 16:27:08

Product Name: **Swertiamarin**

CAS Number: 17388-39-5

Specifications & Purity: 95%

Lot #: B2419497

SKU #: **S463917**

**Analysis:** **318013**

Storage Temperature: Protected from light, Store at -20°C

| Parameter                                                  | Limit Values          | Result                |
|------------------------------------------------------------|-----------------------|-----------------------|
| Purity(HPLC area)                                          | 95-100 (%)            | 95.55 %               |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in EtOH})$ | -141~-136 (°)         | -136.93 °             |
| Proton NMR spectrum                                        | Conforms to Structure | Conforms to Structure |

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

John Su  
QA & QC Manager