



## CERTIFICATE OF ANALYSIS

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### 1. Identification

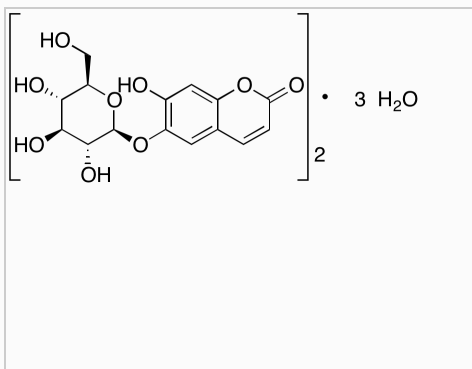
**Catalogue Number:** E658958

**CAS Number:** 66778-17-4

**Product:** Esculin Sesquihydrate

**Synonym:**

**Structure:**



**Molecular Formula:**

$C_{15}H_{16}O_9 \cdot 11/2H_2O$

**Molecular weight:**

367.31

**Source of Product:**

N/A

**Solubility:**

DMSO (Slightly), Water (Slightly, Heated)

**Lot Number:** 3-ASA-73-1

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

| Tests:             | Specifications:          | Results:                |
|--------------------|--------------------------|-------------------------|
| Appearance         | White to Off-White Solid | White Solid             |
| NMR                | Conforms to Structure    | Conforms                |
| Elemental Analysis | Conforms                 | %C: 49.35, %H: 5.10     |
| MS                 | Conforms to Structure    | Conforms                |
| Water Content      | Report Result            | 8.6% by Karl Fischer    |
| Specific Rotation  | Report Result            | -83.4° (c = 0.5, Water) |
| HPLC Purity        | Report Result            | 99.67% (205 nm)         |

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

| Reviewed By      | Reviewed By   | C of A Approved By | Test Date | Retest Date |
|------------------|---------------|--------------------|-----------|-------------|
| Meenakshi Sharma | Toni Rantanen | Chanell Chu        | 1/12/2022 | 1/10/2026   |