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# CERTIFICATE OF ANALYSIS

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## 1. Identification

**CAS Number:**

480-18-2

**Catalogue Number:**

T010005

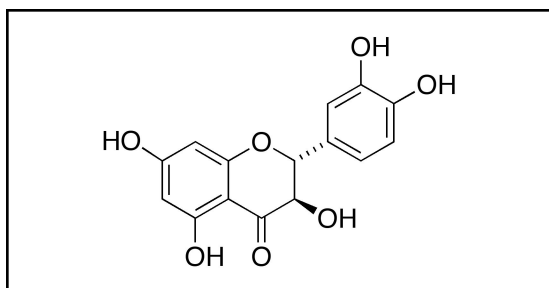
**Product:**

(+)-trans Taxifolin

**Synonyms:**

(2R,3R)-2-(3,4-Dihydroxyphenyl)-2,3-dihydro-3,5,7-trihydroxy-1-benzopyran-4-one; (+)-(2R,3R)-Dihydroquercetin; (+)-Dihydroquercetin; (2R,3R)-(+)-Taxifolin; (2R,3R)-3,3',4',5,7-Pentahydroxyflavanone; 3,5,7,3',4'-Pentahydroxyflavanone; Dihydroquercetin; Diquertin; Distylin; Lariksin; Lavitol; Taxifolin; Taxifoliol;

**Structure:**



**Molecular Formula:**

C<sub>15</sub>H<sub>12</sub>O<sub>7</sub>

**Molecular Weight:**

304.25

**Source of Product:**

## 2. Analytical Information

**Lot Number:**

10-GHZ-96-1

**Melting Point:**

216-220°C

**Boiling Point:**

N/A

**Atmosphere:**

Air

**Appearance of Product:**

Yellow Solid

**Solubility**

DMSO, Methanol

**Method for Determining Identity:**

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) Spectroscopic and Mass Spectrometric Analysis

**Stability**

Not determined

**Purity:**

98%

**Long Term Storage Condition:**

-20°C Freezer

**Additional Information:**

TLC Conditions: SiO<sub>2</sub>; Dichloromethane: Methanol = 9: 1; Visualized with UV and AMCS; Single Spot, R<sub>f</sub>=0.5.

<sup>1</sup>H NMR and mass spectra conform to structure.

Specific rotation: +19.6°(c=0.3, Methanol)

Philip Chan, Quality Control Supervisor

**QC Test Date**

July 13, 2011

**Retest Date**

July 13, 2014