





### For Laboratory Use Only

OH

HO.

Structure

**PRODUCT NAME** Luteolin

**PART NUMBER** 00012461

STANDARD TYPE Primary (P)

**LOT NUMBER** 00012461-233

**REPORT NUMBER** CDXA-RSS-4136-02

**SAMPLE NUMBER** CDXA-10-5977

**DATE OF SAMPLE** 09/20/2010

**DATE OF RE-EVALUATION** 02/09/2015 (1st); 02/14/2019 (2nd)

**DATE OF REPORT** 03/05/2019

3',4',5,7-Tetrahydroxyflavone; 2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-1-**CHEMICAL NAMES** 

benzopyran-4-one; Digitoflavone; Flacitran; Luteolol; Salifazide

HO

**CHEMICAL FORMULA** C<sub>15</sub>H<sub>10</sub>O<sub>6</sub>

MOLECULAR WEIGHT (MW) 286.24

**CHEMICAL FAMILY** Flavones

**CAS NUMBER** [491-70-3]

EC#(EINECS) 207-741-0

**RTECS** LK9275210

# **ANALYTICAL RESULTS**

| TEST             | METHOD                    | SPECIFICATION         | RESULT                         |  |
|------------------|---------------------------|-----------------------|--------------------------------|--|
| Adjusted Purity  | NA                        | NA                    | 96.9%                          |  |
| HPLC             | 99.1-04-1.0-000684        | NA                    | 99.6%                          |  |
| NMR              | 99.1-CD-1.0-000122        | Conforms to structure | Conforms to structure Conforms |  |
| Mass Spectrum    | Direct Infusion, ESI (–)  | Conforms              |                                |  |
| Residual Solvent | 99.1-CD-3.0-000115        | NA                    | Methanol – 0.4%                |  |
| Water            | Water 99.1-04-10.0-000094 |                       | 2.3%                           |  |
| Appearance       | NA                        | NA                    | Yellow powder                  |  |

ADJUSTED PURITY: 96.9% IS BASED ON (100 - 0.4 SOLVENTS - 2.3 WATER) X 99.6% HPLC

#### STORAGE CONDITIONS

**STORAGE** +4 °C in a dry place.

**EXPIRATION DATE** 02/2024 under the above conditions.

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#### **ANALYTICAL CONDITIONS**

**INSTRUMENT** AGILENT 1260 HPLC UV-VIS (DAD);

AGILENT 6510 QTOF

**COLUMN** Phenomenex Luna C18(2) 150 x 2.00 mm, 5 μm particle size

A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; **MOBILE PHASE** 

Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at

95% B for 15 minutes.

**COLUMN TEMP.** 60 °C

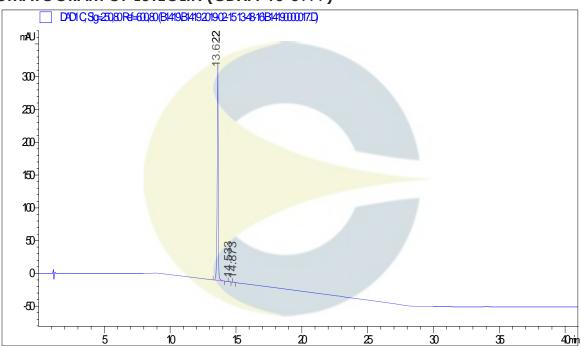
**FLOW RATE** 0.4 mL/minute

INJECTION VOL.  $0.2 \mu L$ 

INJECTION CONC. 1.1 mg/mL in Methanol

**DETECTION**  $250 \pm 40 \text{ nm}$ 

### **HPLC CHROMATOGRAM OF LUTEOLIN (CDXA-10-5977)**



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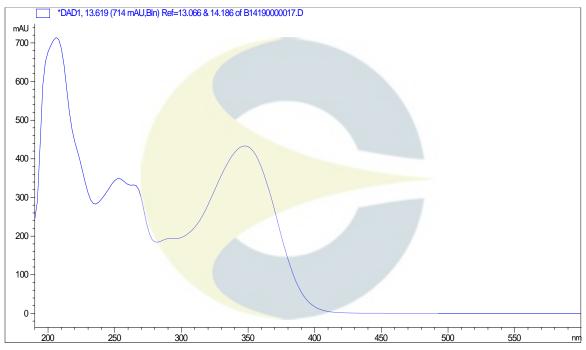




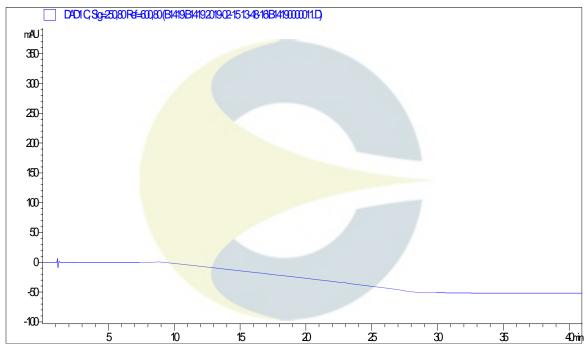


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#### **UV SPECTRUM AT RT = 13.6 MINUTES**



## HPLC CHROMATOGRAM OF DILUENT BLANK



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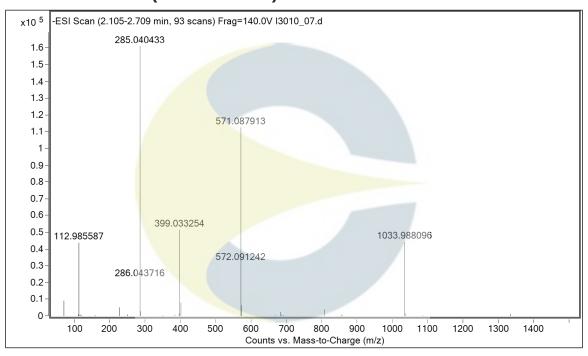




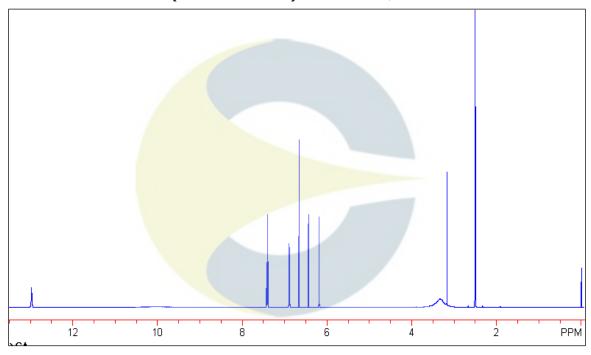


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## MASS SPECTRUM OF LUTEOLIN (CDXA-10-5977)



## 1H-NMR SPECTRUM OF LUTEOLIN (CDXA-10-5977) IN DMSO-d6



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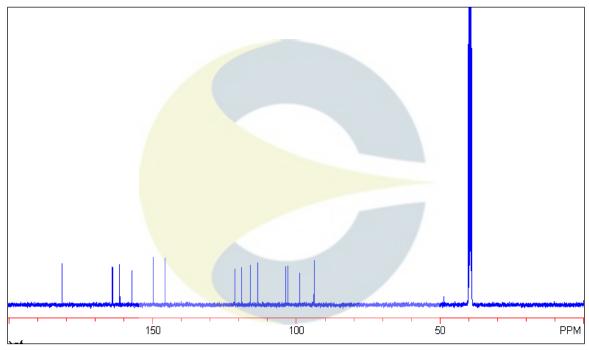






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## 13C-NMR SPECTRUM OF LUTEOLIN (CDXA-10-5977) IN DMSO-d6



#### **REVISION HISTORY**

| Revision History | <u>Date of Revision</u> | Document/Changes   |
|------------------|-------------------------|--|
| 00               | 10/28/2010              | New report   |
| 01               | 02/19/2015              | Passed re-evaluation by HPLC. Updated expiration date, chemical names and melting point.   |
| 02               | 03/05/2019              | Passed second re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms and results. Removed melting point. |

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