





# Certificate of Analysis

For Laboratory Use Only

Structure

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**PRODUCT NAME** Rutin

**PART NUMBER** 00018440

**STANDARD TYPE** Analytical Standard (AS)

**LOT NUMBER** 00018440-002694

**REPORT NUMBER** CDXA-RSS-7073-01

SAMPLE NUMBER CDXA-16-002694

**DATE OF SAMPLE** 03/02/2016

DATE OF RE-EVALUATION 04/22/2020

**DATE OF REPORT** 05/13/2020

CHEMICAL NAMES 3,3',4',5,7-Pentahydroxyflavone-3-rutinoside; 3-Rutinosylquercetin; Quercetin-3-

rhamnoglucoside; Rutine, Rutoside

CHEMICAL FORMULA C27H30O16

MOLECULAR WEIGHT (MW) 610.52

CHEMICAL FAMILY Flavanoids

**CAS NUMBER** [153-18-4]

**EC#(EINECS)** 205-814-1

**RTECS** VM2975000

### ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
HPLC	0.700.10.2.METH22	NA	96.6%	
Mass Spectrum	Direct Infusion: ESI (-)	Conforms	Conforms	
Appearance NA		NA	Yellow needles	

#### STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 04/2025 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

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

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

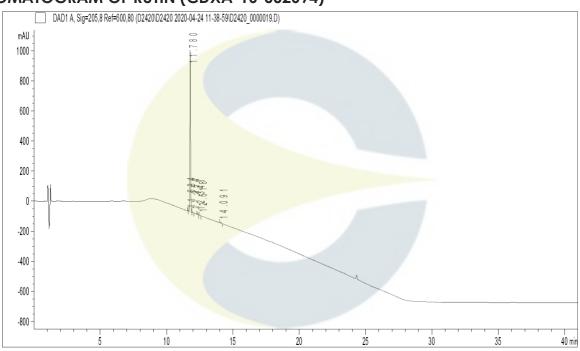
**FLOW RATE** 0.4 mL/minute

INJECTION VOL. 0.4 µL

**INJECTION CONC.** 1.1 mg/mL in Methanol

**DETECTION**  $205 \pm 4 \text{ nm}$ 

### HPLC CHROMATOGRAM OF RUTIN (CDXA-16-002694)





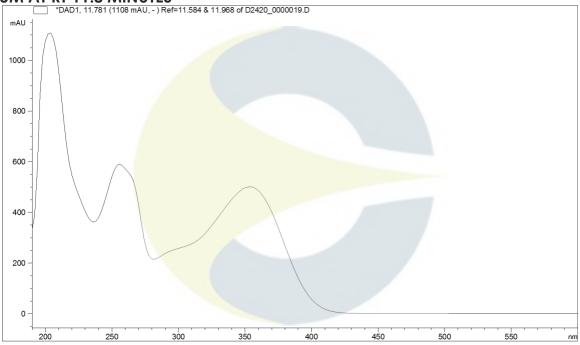




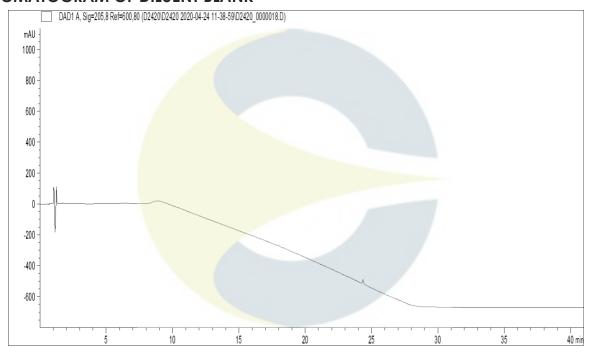
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#### **UV SPECTRUM AT RT 11.8 MINUTES**



#### HPLC CHROMATOGRAM OF DILUENT BLANK





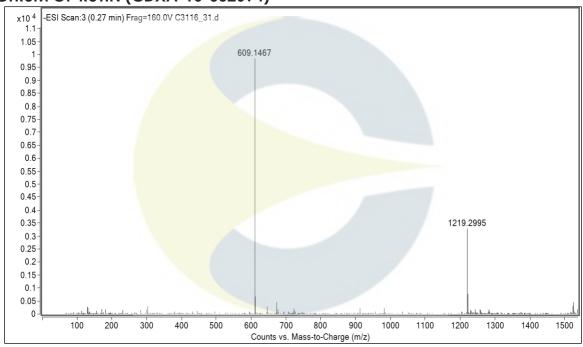




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### MASS SPECTRUM OF RUTIN (CDXA-16-002694)



#### **REVISION HISTORY**

Revision History	<u>Date of Revision</u>	Document/Changes
00	04/04/2016	New report
01	05/13/2020	Passed re-evaluation by HPLC. Updated purity, analytical conditions, expiration date, results and removed melting point.