



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Catalog Number: 06-067

Product Name: **QUERCITRIN HYDRATE**  
(Quercetin-3-O-rhamnoside)

Cas Number: [522-12-3]

Lot Number: 1308368

Chemical Formula: C<sub>21</sub>H<sub>20</sub>O<sub>11</sub>

Molecular Weight: 448.38

Appearance: Pale yellow powder

Melting Point: 174-178°C (dec)

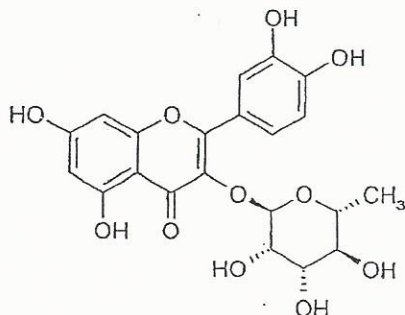
TLC: Chloroform: Methanol (6:4)

Solubility: Soluble in DMSO

NMR Spectrum: Enclosed (confirms to the structure)

Storage: Store in a cool dry place

Purity(HPLC): 98.63%





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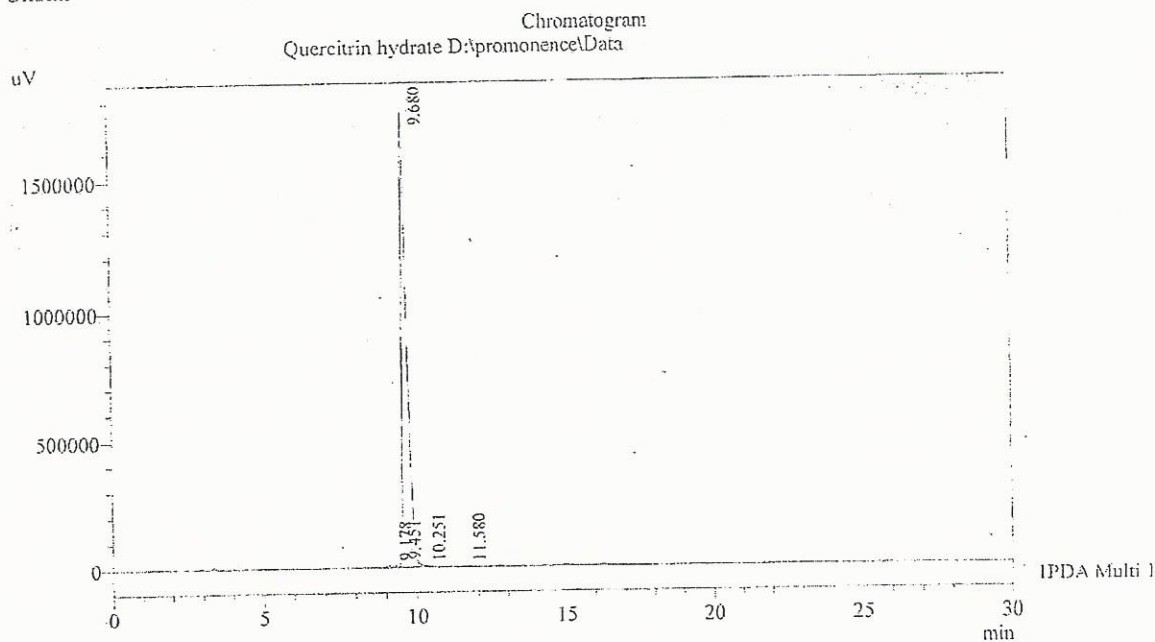
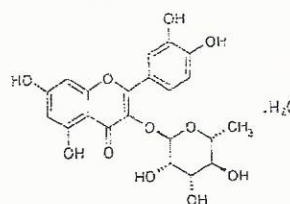
e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

Acquired by : Sanjeev  
 Sample Name : Quercitrin hydrate  
 Sample ID : Lot No: 1308368  
 Injection Volume : 20 uL  
 Data Filename : 2708131.lcd  
 Method Filename : Linear Gradient.M.lcm

Catalog No.: 06-067  
 Product Name: Quercitrin  
 Lot No.: 1308368

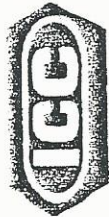
Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)  
 Flow : 1.000 mL/min.  
 Mobile Phase : A(0.1% OPA in water) B(Acetonitrile)  
 0.01 90 10  
 12.0 10 90  
 20.0 10 90  
 23.0 90 10  
 30.0 90 10  
 Diluent : Acetonitrile



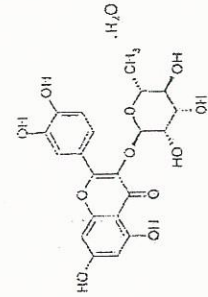
1 PDA Multi 1 / 254nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:9.178	9.178	126544	0.60	0.95
2	RT:9.451	9.451	85587	0.40	0.98
3	Quercitrin hydrate	9.680	20922326	98.63	1.00
4	RT:10.251	10.251	31274	0.15	1.06
5	RT:11.580	11.580	46607	0.22	1.20
Total			21212337	100.00	



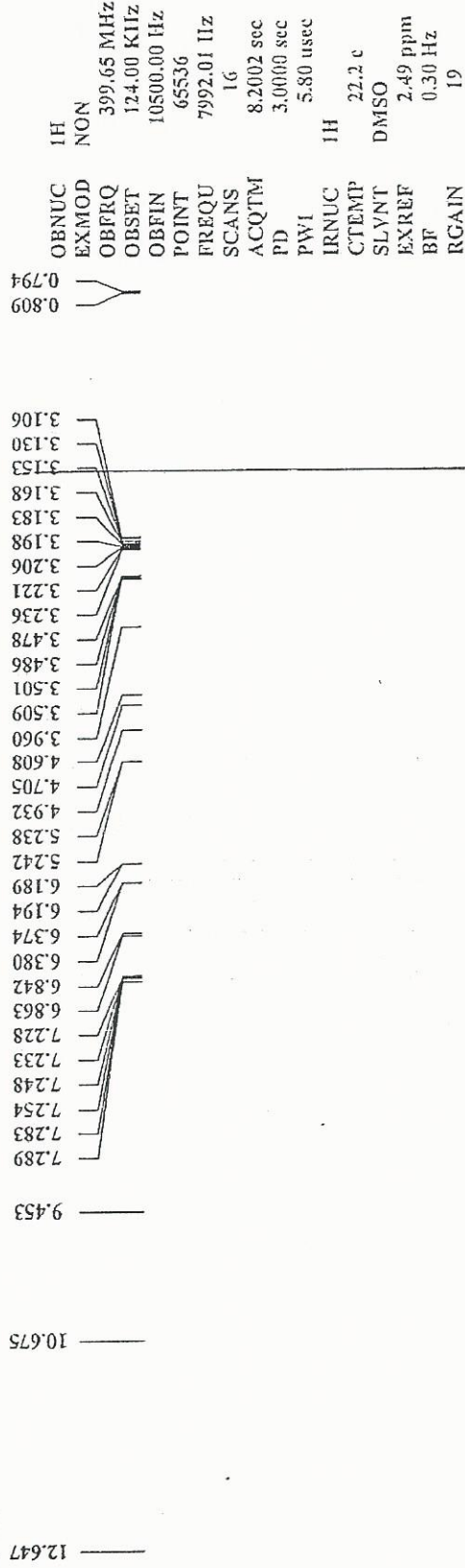
INDOFINE Chemical Company, Inc.  
121 STRYKER LANE  
BLDG. 80, SUITE 1  
HILLSBOROUGH, NJ 08844



Catalog No.: 06-067  
Product Name: Quercitrin  
Lot No.: 1308368

<sup>1</sup>H NMR DMSO-d<sub>6</sub>

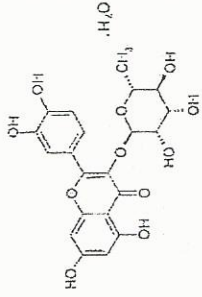
Analysed By : TJR



OBNUC 1H  
EXMOD NON  
OBFRQ 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
POINT 65536  
FREQU 7992.01 Hz  
SCANS 16  
ACQTM 8.2002 sec  
PD 3.0000 sec  
PWI 5.80 usec  
IRNUC 1H  
CTEMP 22.2 c  
SLVNT DMSO  
EXREF 2.49 ppm  
BF 0.30 Hz  
RGAIN 19



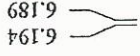
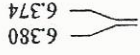
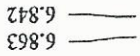
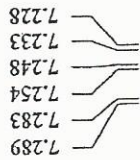
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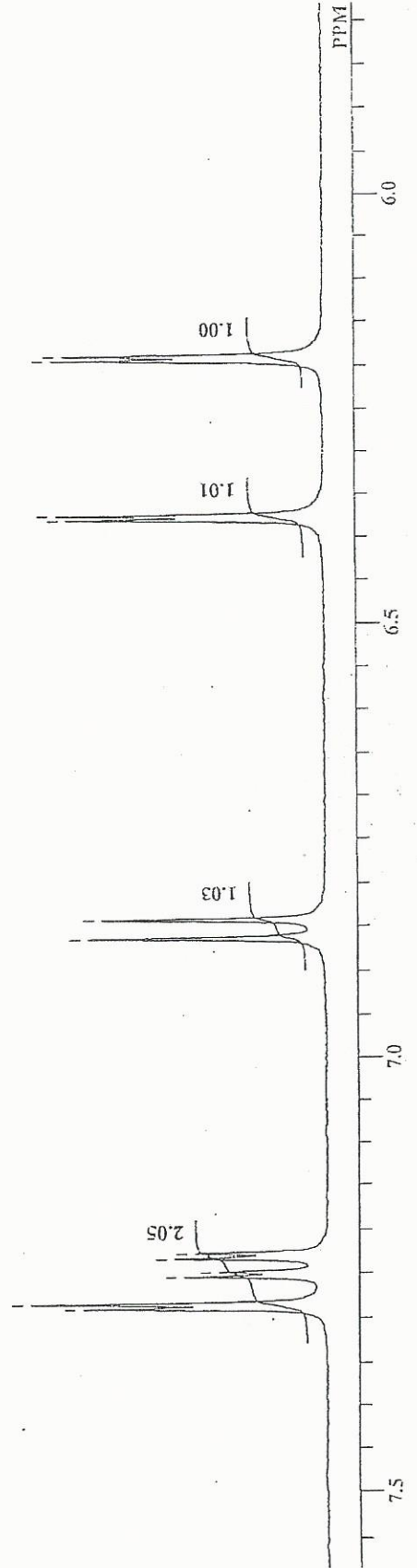
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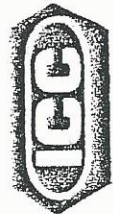
<sup>1</sup>H NMR DMSO-d<sub>6</sub>

Analysed By : TJR

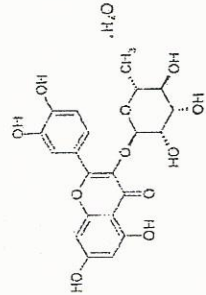


OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	16
ACQTM	8.2002 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	III
CTEMP	22.2 c
SLVNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	19





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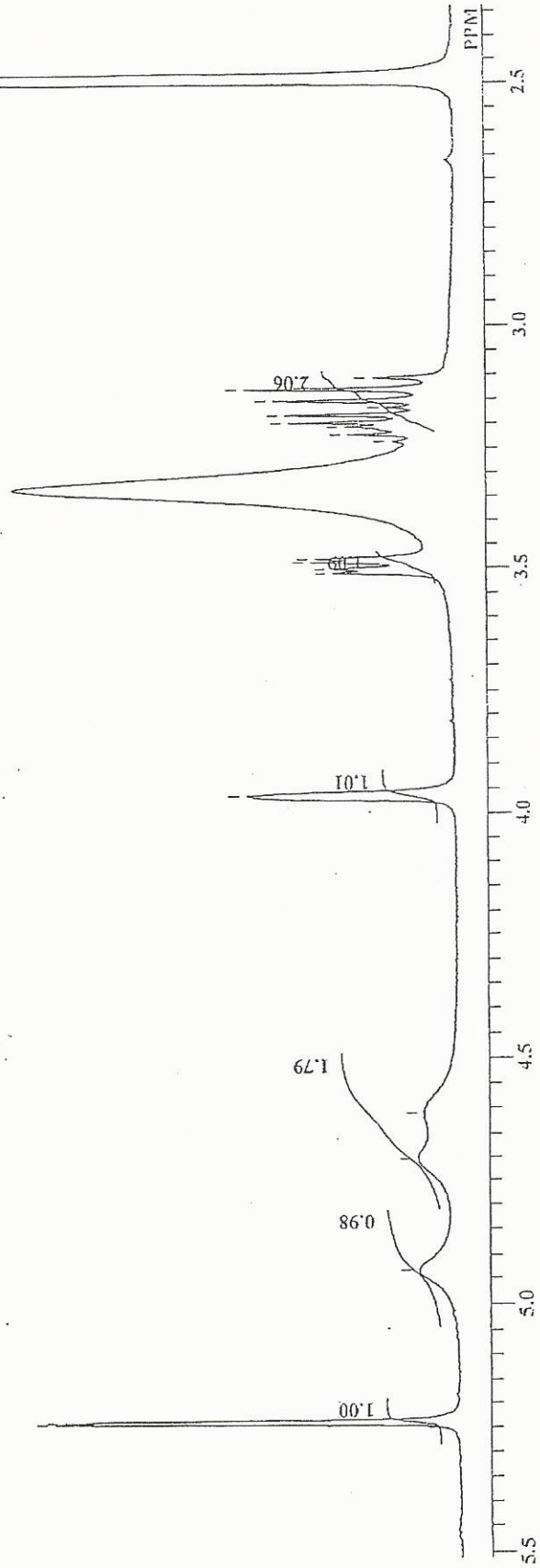
Catalog No.: 06-067  
Product Name: Quercitrin  
Lot No.: 1308368

<sup>1</sup>H NMR DMSO-d<sub>6</sub>

Analysed By : TJR



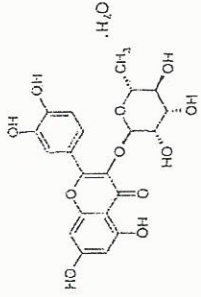
OBNUC 1H  
EXMOD NON  
OBFRQ 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
POINT 65536  
FREQU 7992.01 Hz  
SCANS 16  
ACQTM 8.2002 sec  
PD 3.0000 sec  
PWI 5.80 msec  
IRNUC 1H  
CTEMP 22.2 c  
SLVNT DMSO  
EXREF 2.49 ppm  
BF 0.30 Hz  
RGAIN 19







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Lot No.: 1308368

<sup>1</sup>H NMR DMSO-d6

Analysed By: TJR

0.809  
0.794

OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBRIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	16
ACQTM	8.2002 sec
PD	3.0000 sec
PWI	5.80 usec
IRNUC	1H
CTEMP	22.2 c
SLYNT	DMSO
EXREF	2.49 ppm
BF	0.30 Hz
RGAIN	19

3.07

