

# LIFTMODE

LIFTMODE  
47 W. Polk St. STE 100-241  
Chicago, IL 60605

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www.liftmode.com

## CERTIFICATE OF ANALYSIS

### Rutin

(CAS# 153-18-4 ; 2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranosyloxy]-4H-chromen-4-one)

Material Lot #:	Ru180502	Manufacture Date:	05/10/2018
Country of Origin:	China	Retesting Date:	02/22/2024
Botanical Source:	<i>Sophora japonica L.</i>		

Analysis	Claim	Result
Rutin	$\geq 95.0\%$	98.6%

Test	Specification	Result
Appearance	Yellow or greenish-yellow powder	Complies
Identification	IR	Complies
Light Absorbing Impurities	$\leq 0.10$ (450-800nm)	Complies
Substances insoluble in methanol	$\leq 3\%$	0.04%
Methanol	$\leq 300\text{ppm}$	46ppm
Water	7.5-9.5%	9.1ppm
Sulfated Ash	$\leq 0.1\%$	0.02%
Related Substance		
Isoquercitrinside	$\leq 2.0\%$	0.24%
Kaempferol 3-rutinoside	$\leq 2.0\%$	1.2%
Quercetin	$\leq 2.0\%$	0.0%
Total Impurity	$\leq 4.0\%$	1.7%
Total Plate Count	$\leq 1000$ cfu/g	Complies
Yeast & Mold	$\leq 100$ cfu/g	Complies
Salmonella	Not Detectable	Complies
E.coli	Not Detectable	Complies
Staphylococcus Aureus	Not Detectable	Complies

Rutin should be stored at or below room temperature in a tightly sealed durable container.  
Rutin should be protected from excess heat, direct sunlight, excess humidity and moisture.  
Rutin has a stable shelf life of 3 years from the date of testing when properly stored.



## S & N LABS

2021 E. Fourth Street Santa Ana, California 92705 (714) 543-2211

25 February 2021

Job Number:	24771a
PO Number:	verbal

Synaptent LLC  
47 W. Polk Street #100-241  
Chicago, Illinois 60605

### REPORT OF ANALYSIS

One jar labeled "Rutin (Vitamin P) #180502" was received on 18 February 2021. The powder in the jar was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 256nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Rutin (Vitamin P) #180502	98.6

The chromatogram is enclosed for your reference.

*Neil E. Spingarn*

Neil E. Spingarn, Ph.D.  
President

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Telephone: 615-239-8604

### Certificate of Analysis

Synaptent LLC  
47 W Polk Street, 100-241  
Chicago, IL 60654

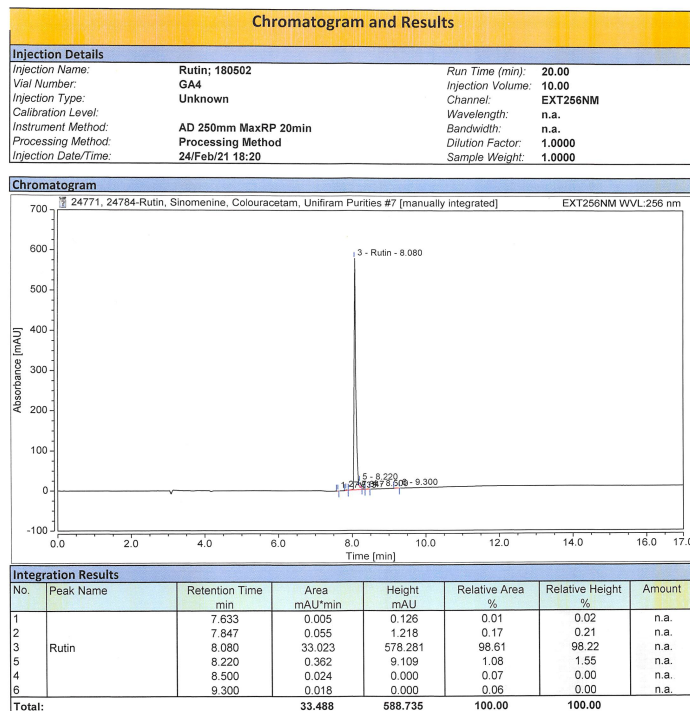
Product Name	Rutin EP	Product Lot Number	180502
Report Date	06/28/18	Laboratory Number	10446

Description	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	HPLC	98.5%
Lead	ICP-MS USP <730>	0.008 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	0.001 ppm
Mercury	ICP-MS USP <730>	0.025 ppm
Total Aerobic Count	Biolumix	<100 CFU/g
Yeast & Mold	Biolumix	<100 CFU/g
E. Coli	Biolumix	Negative
Coliform	Biolumix	<10 CFU/g
Salmonella	Biolumix	Negative

Collin Thomas  
Laboratory Manager

06/28/2018  
Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.



Report Template/Integration

Chromleon (c) Dionex  
Version 7.2.10.23925

<sup>1</sup>H NMR of Rutin EP  
in MeOD  
Lot # 10446  
Colmaric Analytical  
400 MHz  
06-13-18

