



LIFTMODE
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CERTIFICATE OF ANALYSIS



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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 6/28/18
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.



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Rutin

(CAS# 153-18-4 ; 2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3-[α-L-rhamnopyranosyl-(1→6)-β-D-glucopyranosyloxy]-4H-chromen-4-one)

Material Lot #: Ru180502 Manufacture Date: 05/10/2018
Country of Origin: China Retesting Date: 05/09/2021
Botanical Source: *Sophora japonica L.*

Analysis	Claim	Result
Rutin	≥95.0%	100.2%

Test	Specification	Result
Appearance	Yellow or greenish-yellow powder	Complies
Identification	IR	Complies
Light Absorbing Impurities	≤0.10 (450-800nm)	Complies
Substances insoluble in methanol	≤3%	0.04%
Methanol	≤300ppm	46ppm
Water	7.5-9.5%	9.1ppm
Sulfated Ash	≤0.1%	0.02%
Related Substance		
Isoquercitroside	≤2.0%	0.24%
Kaempferol 3-rutinoside	≤2.0%	1.2%
Quercetin	≤2.0%	0.0%
Total Impurity	≤4.0%	1.7%
Total Plate Count	≤1000 cfu/g	Complies
Yeast & Mold	≤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.

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

