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4 November 2020

Job Number:	24492
PO Number:	verbal

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

REPORT OF ANALYSIS

One sealed bag labeled "7,8-Dihydroxyflavone #20201029" was received on 2 November 2020. The powder in the bag was assayed for purity using high pressure liquid chromatography (HPLC) using UV detection at 266nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% w/w)
7,8-Dihydroxyflavone #20201029	99.2

Neil E. Spingarn, Ph.D.
President

CERTIFICATE OF ANALYSIS

7,8-Dihydroxyflavone
(7,8-dihydroxy-2-phenylchromen-4-one)

Material Lot #: 20201029
Country of Origin: China

Analysis Date: 11/04/2020
Retesting Date: 11/04/2023

Analysis	Claim	Result
7,8-Dihydroxyflavone	≥98%	99.2%

Test	Specification	Result
H-NMR ID	Conforms	Conforms
¹³ C-NMR ID	Conforms	Conforms
HPLC Assay	≥ 98%	99.2%
ICP-MS		
Arsenic	≤1.5 ppm	0.001 ppm
Lead	≤0.5 ppm	0.066 ppm
Cadmium	≤0.5 ppm	0.005 ppm
Mercury	≤0.5 ppm	<0.001 ppm
Total Aerobic Count	< 1000 cfu/g	Conforms
Yeast & Mold	<100 cfu/g	Conforms
Coliform	<10 cfu/g	Conforms
<i>E.coli</i>	Negative	Conforms
Salmonella	Negative	Conforms

7,8-Dihydroxyflavone should be stored at or below room temperature in a tightly sealed durable container. 7,8-Dihydroxyflavone should be protected from excess heat, direct sunlight, excess humidity, and moisture. 7,8-Dihydroxyflavone has a retesting period of 3 years from the date of analysis when properly stored.



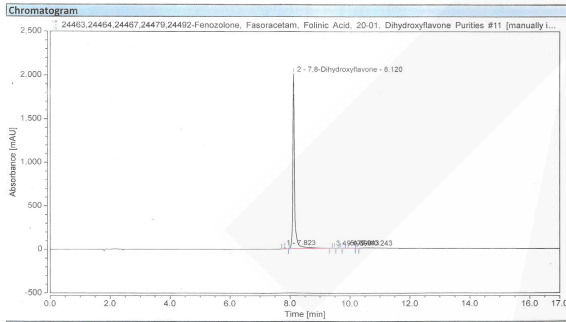
Certificate of Analysis

Client:
Synaptic LLC
47 W Polk Street, 100-241
Chicago, IL 60654

Sample Collected By: Client

Product Name	7,8-Dihydroxyflavone	Product Lot Number	20201029
Report Date	11/24/20	Laboratory Number	20111385

Injection Details			
Injection Name	7,8-Dihydroxyflavone #20201029	Run Time (min)	20.00
Vial Number	BC7	Injection Volume	10.00
Injection Type	Unknown	Channel	EXT266NM
Calibration Level		Wavelength	n.a.
Instrument Method	pH8 BD 80% 150mm MaxRP 20min	Bandwidth	n.a.
Processing Method		Dilution Factor	1.0000
Injection Date/Time	02/Nov/20 18:30	Sample Weight	



No.	Peak Name	Retention Time (min)	Area (mAU*min)	Height (mAU)	Relative Area (%)	Relative Height (%)	Amount
2	7,8-Dihydroxyflavone	8.120	130.795	2007.160	99.19	99.10	n.a.
Total:			130.795	2007.160	99.19	99.10	

Description	Method	Specification	Results
Identification	H-NMR	Conforms	Conforms
Identification	13C-NMR	Conforms	Conforms
Lead	ICP-MS	<0.5 ppm	0.066 ppm
Arsenic	ICP-MS	<0.5 ppm	0.001 ppm
Cadmium	ICP-MS	<0.5 ppm	0.005 ppm
Mercury	ICP-MS	<0.5 ppm	<0.001 ppm
Total Aerobic Count	Biolumix	<1,000 cfu/g	<1,000 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g	<100 cfu/g
E. Coli	Biolumix	Negative	Negative
Coliform	Biolumix	<10 cfu/g	<10 cfu/g
Salmonella	Biolumix	Negative	Negative

Collin Thomas
Laboratory Manager

11/24/2020
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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