47 W Polk St. STE 100-241 Chicago, IL 60605 liftmode@liftmode.com



# **Baicalin Capsules**

### Scutellaria Baicalensis Extract

Material Lot #: 30056 Test Date: 09/22/2022

Country of Origin: USA / China Re-Test Date: 09/19/2025

#### Capsules Formula

Ingredient	mg/serving	Test/Method	Specification	Result
Baicalin	250mg	Baicalin (HPLC)	95%	Pass
Ascorbyl Palmitate (Vitamin C)	50mg	Ascorbyl Palmitate (HPLC)	98%	Pass

#### Capsules Safety

Test	Specification	Result	
Lead Mercury Cadmium Arsenic	≤0.5 ppm ≤0.5 ppm ≤0.5 ppm ≤0.5 ppm	0.224 ppm 0.0908 ppm <0.005 ppm 0.0749 ppm	Pass Pass Pass Pass
Total Aerobic Plate Count	<1000 cfu/g	<10 cfu/g	Pass
Yeast	< 100 cfu/g	< 10 cfu/g	Pass
Mold	< 100 cfu/g	< 10 cfu/g	Pass
Escherichia coli	<10 cfu/g	<10 cfu/g	Pass
Coliforms	<10 cfu/g	<10 cfu/g	Pass
Salmonella	Negative	Negative	Pass
Staphylococcus aureus	<10 cfu/g	<10 cfu/g	Pass

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

### **Baicalin Capsulse Saftey**



**Eurofins Microbiology Laboratories (New Berlin)** 

Eurofins Microbiology Laboratories (New Berlin)

Client Code: QH0000902

Completed

21Sep2022

PO#: 210208

2345 S. 170th St. New Berlin, Wisconsin 53151 +1 262 754 5300 Micro-MKE@EurofinsUS.com

Synaptent

Salmonella

Chapter 12

Parameter

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

AR-22-QF

ANALYTICAL REPORT

1.055000.04	Received On: 19Sep2022
H-055028-01	Reported On: 26Sep2022

Accreditation

A2LA 3329.07

ISO/IEC 17025:2017

Eurofins Sample Code: Client Sample Code: Sample Description:	477-2022-09190 30056 Baicalin Capsule		Sample Registration Condition Upon Rec Sample Reference:	Date: 19Sep2022 eipt: acceptable, 19.8°C	;	
FS001 - Heavy Metals (As Pb)	s, Cd, Hg, and	Reference AOAC 2011.19, (modified)	993.14 and 2015.01	Accreditation	Completed 26Sep2022	Sub 1
<b>Parameter</b> Arsenic		Result 74.9 ppb				
Cadmium		<5.00 ppb				
Lead		224 ppb				
Mercury		90.8 ppb				
UM8VD - Total Coliforms Chapter 9.933	- CMMEF	Reference CMMEF Chapte	er 9.933	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 20Sep2022	
Parameter Coliforms		Result < 10 cfu/g				
Parameter Escherichia coli		Result < 10 cfu/g				
UMDTC - Salmonella spe 121501	cies - AOAC-RI	Reference AOAC-RI 12150	01	Accreditation ISO/IEC 17025:2017 A2LA 3329.07	Completed 20Sep2022	
Parameter		Result				

Not Detected per 25 g

Reference

Result

BAM Chapter 12

UMHBM - Staphylococcus aureus - BAM

Synaptent

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

**ANALYTICAL REPORT** 

AR-22-QH-055028-01

Client Code: QH0000902 PO#: 210208

Received On: 19Sep2022 Reported On: 26Sep2022

**Eurofins Sample Code:** 477-2022-09190033 Sample Registration Date: 19Sep2022 30056 Condition Upon Receipt: acceptable, 19.8°C Client Sample Code: Sample Description: Baicalin Capsules Sample Reference:

UMHBM - Staphylococcus aureus - BAM Reference Accreditation Completed BAM Chapter 12 Chapter 12 ISO/IEC 17025:2017 21Sep2022 A2LA 3329.07

Result Parameter < 10 cfu/g Staphylococcus aureus

UMIB1 - Yeast - FDA BAM Chapter 18 Reference Accreditation Completed FDA BAM Chapter 18 mod. ISO/IEC 17025:2017 24Sep2022 A2LA 3329.07

Parameter Result Yeast < 10 cfu/g Parameter Result Moulds < 10 cfu/g

UMVSE - Aerobic Plate Count - CMMEF Accreditation Completed Reference Chapter 8.72 CMMEF Chapter 8.72 ISO/IEC 17025:2017 21Sep2022 A2LA 3329.07

Parameter Result Aerobic Plate Count < 10 cfu/g

Subcontracting partners:

1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Bryan Dieckelman

Laboratory Operations Manager

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. All results are reported on an "As Received" basis unless otherwise stated. Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinsus.com/terms and conditions.pdf | \( \sqrt{lndicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

Page 1 of 2 9/26/22 8:50 am Page 2 of 2 9/26/22 8:50 am

## Baicalin, Page 1



7 September 2022

ſ	Job Number:	26182b
ſ	PO Number:	Verbal

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

#### REPORT OF ANALYSIS

One blue container with powder labeled "Baicalin 20220822" was received on 29 August 2022. A portion of the powder from within the container was analyzed for purity using high pressure liquid chromatography (HPLC). Based on ultraviolet (UV) detection at 214 nm the chromatographic purity of the sample was found to be 96.0%.

The chromatogram is enclosed for your reference.



Chris French, PhD Principal Scientist

2021 East Fourth Street, Suite 112

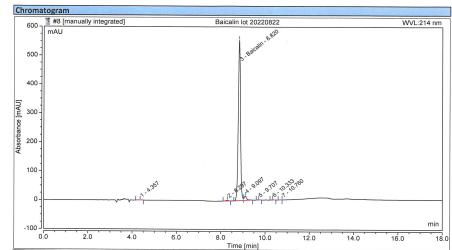
Santa Ana, California 92705

(714) 543-2211

Instrument:Annex-2 Sequence:26182- Baicalin, Icariin, and DiEt-Fencamfamin Purities

Page 1 of 2

Chromatogram and Results						
njection Details						
Injection Name:	Baicalin lot 20220822	Run Time (min):	28.00			
Vial Number:	GC3	Injection Volume:	10.00			
Injection Type:	Unknown	Channel:	EXT214NM			
Calibration Level:		Wavelength:	n.a.			
Instrument Method:	BD pH6 250mm MaxRP 28min Purity Method	Bandwidth:	n.a.			
Processing Method:	Processing Method	Dilution Factor:	1.0000			
Injection Date/Time:	01/Sep/22 19:54	Sample Weight:	1.0000			



Integ	gration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		4.357	0.039	0.237	0.06	0.04	n.a.
2		8.297	0.274	2.318	0.41	0.40	n.a.
3	Baicalin	8.820	64.449	554.915	95.99	96.52	n.a.
4		9.097	2.140	15.540	3.19	2.70	n.a.
5		9.707	0.093	0.847	0.14	0.15	n.a.
6		10.333	0.127	1.087	0.19	0.19	n.a.
7		10.760	0.017	0.000	0.03	0.00	n.a.
Total	l:		67.140	574.944	100.00	100.00	

Report Template/Integration Chromeleon (c) Dionex Version 7.2.10.23925

### Baicalin, Page 2



**Eurofins Microbiology Laboratories (New Berlin)** 

Eurofins Microbiology Laboratories (New Berlin)

Client Code: QH0000902

Received On: 26Aug2022

Reported On: 09Sep2022

PO#: 20220819

2345 S. 170th St. New Berlin, Wisconsin 53151 +1 262 754 5300 Micro-MKE@EurofinsUS.com

Synaptent

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

Eurofins Sample Code:

**ANALYTICAL REPORT** 

AR-22-QH-051456-01

Sample Registration Date: 26Aug2022

Client Sample Code: 20220822 Condition Upon Receipt: acceptable, 19.7°C Sample Description: Baicalin Sample Reference:

477-2022-08260174

FS001 - Heavy Metals (As, Cd, Hg, and Reference Accreditation Completed Sub Pb) AOAC 2011.19, 993.14 and 2015.01 09Sep2022 (modified)

Result Parameter Arsenic 116 ppb Cadmium <5.00 ppb 159 ppb Lead Mercury 127 ppb

UM8VD - Total Coliforms - CMMEF Accreditation Completed Reference CMMEF Chapter 9.933 Chapter 9.933 ISO/IEC 17025:2017 27Aug2022 A2LA 3329.07

Parameter Result Coliforms < 10 cfu/g **Parameter** Result Escherichia coli < 10 cfu/g

UMDTC - Salmonella spp. - AOAC-RI Reference Accreditation Completed AOAC-RI 121501 27Aug2022 121501 ISO/IEC 17025:2017 A2LA 3329.07

Parameter Result

Salmonella Not Detected per 25 g

UMHBM - Staphylococcus aureus - BAM Reference Accreditation Completed **BAM Chapter 12** 28Aug2022 Chapter 12 ISO/IEC 17025:2017 A2LA 3329.07

Result Parameter Staphylococcus aureus < 10 cfu/g

UMIB1 - Yeast - FDA BAM Chapter 18 Accreditation Completed Reference FDA BAM Chapter 18 mod. 31Aug2022 mod. ISO/IEC 17025:2017 A2LA 3329.07

Synaptent

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

ANALYTICAL REPORT

AR-22-QH-051456-01

Client Code: QH0000902 PO#: 20220819

Received On: 26Aug2022 Reported On: 09Sep2022

Eurofins Sample Code: 477-2022-08260174 Sample Registration Date: 26Aug2022

20220822 Client Sample Code: Condition Upon Receipt: acceptable, 19.7°C

Sample Description: Baicalin Sample Reference:

UMIB1 - Yeast - FDA BAM Chapter 18 Reference Accreditation Completed FDA BAM Chapter 18 mod. ISO/IEC 17025:2017 31Aug2022 A2LA 3329.07

**Parameter** Result < 10 cfu/g Yeast Result Parameter Moulds < 10 cfu/g

UMVSE - Aerobic Plate Count - CMMEF Reference Accreditation Completed CMMEF Chapter 8.72 Chapter 8.72 ISO/IEC 17025:2017 28Aug2022 A2LA 3329.07

Result Parameter Aerobic Plate Count < 10 cfu/g

Subcontracting partners:

1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Bryan Dieckelman

Laboratory Operations Manager

ACCREDITED

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinsus.com/terms\_and\_conditions.pdf | \sqrt{lndicates} a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

Page 1 of 2 Page 2 of 2 9/9/22 8:23 am 9/9/22 8:23 am

# Ascorbyl Palmitate (Vitamin C Ester), Page 1



### S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

16 July 2021

Job Number:	25149ь
PO Number:	verbal

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

#### REPORT OF ANALYSIS

One blue container labeled "Ascorbyl Palmitate 181117374" was received on 17 June 2021. The material was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was monitored at 242 nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Ascorbyl Palmitate 181117374	98.9

The chromatogram is enclosed for your reference.

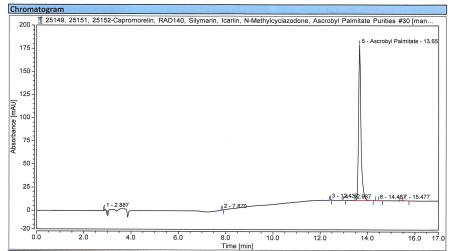
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:25149, 25151, 25152-Capromorelin, RAD140, Silymarin, Icariin, N-Methylcyclazodone, Ascrobyl Palmitate Purities

Page 1 of 1

Chromatogram and Results							
Injection Details	njection Details						
Injection Name:	Ascrobyl Palmitate 181117374	Run Time (min):	20.00				
Vial Number:	RD5	Injection Volume:	10.00				
Injection Type:	Unknown	Channel:	EXT242NM				
Calibration Level:		Wavelength:	n.a.				
Instrument Method:	AD 250mm MaxRP 20min	Bandwidth:	n.a.				
Processing Method:	Processing Method	Dilution Factor:	1.0000				
Injection Date/Time:	15/Jul/21 18:21	Sample Weight:	1.0000				



Inte	Integration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		2.887	0.094	1.866	0.47	1.09	n.a.
2		7.870	0.011	0.240	0.06	0.14	n.a.
3		12.437	0.032	0.591	0.16	0.35	n.a.
4		12.987	0.011	0.131	0.06	0.08	n.a.
5	Ascrobyl Palmitate	13.657	19.590	167.851	98.93	98.08	n.a.
6		14.467	0.022	0.162	0.11	0.09	n.a.
7		15.477	0.043	0.294	0.22	0.17	n.a.
Total:		19.803	171.136	100.00	100.00		

Report Template/Integration Chromeleon (c) Dionex Version 7.2.10.23925

## Ascorbyl Palmitate (Vitamin C Ester), Page 2



812 Meadow Lark Lane, Godlettsville, TN 37072 Telephone: 615-239-8604

### Certificate of Analysis

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

Product Name	Ascorbyl Palmitate	Client Lot Number	181117374
Report Date	11/01/19	Laboratory #	12958

Test	Method	Result
Identification	H-NMR	Conforms
Ascorbyl Palmitate	HPLC	99.9%
Lead	ICP-MS USP <730>	0.016 ppm
Arsenic	ICP-MS USP <730>	<0.0001 ppm
Cadmium	ICP-MS USP <730>	0.012 ppm
Mercury	ICP-MS USP <730>	0.025 ppm
Total Aerobic Count	Biolumix	<1,000 cfu/g
Yeast and Mold	Biolumix	<100 cfu/g
E.Coli	Biolumix	Negative
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Negative

NT: Non-Aqueous Titration

Collin Thomas MX

Laboratory Manager

11/01/2019 K \ \ \ \ Date