



# Certificate of Analysis

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



## BaiCalm Capsules

### BaiCalm Blend

Material Lot #:	30101	Test Date:	09/29/2022
Country of Manufacturing:	USA	Re-Test Date:	09/26/2025
Country of Origin:	India / China		

### BaiCalm Formula

Ingredient	mg/serving	Test/Method	Specification	Result
Scutellaria Baicalensis Extract	256mg	Baicalein (HPLC)	98%	Pass
Magnolia Bark Extract	169mg	Magnolol & Honokiol (HPLC)	95%	Pass
L-Theanine	102mg	L-Theanine (HPLC)	99%	Pass
Curcumin	82mg	Curcuminoid (HPLC)	95%	Pass
Sinomenium Acutum Stem Extract	41mg	Sinomenine HCl (HPLC)	98%	Pass
Black Pepper Fruit Extract	10mg	Piperine (HPLC)	95%	Pass

### BaiCalm Safety

Test	Specification	Results
Lead	≤0.5 ppm	Pass
Mercury	≤0.5 ppm	Pass
Cadmium	≤0.5 ppm	Pass
Arsenic	≤0.5 ppm	Pass
<b>Total Aerobic Plate Count</b>	<b>&lt;1000 cfu/g</b>	<b>Pass</b>
Yeast	< 100 cfu/g	Pass
Mold	< 100 cfu/g	Pass
Escherichia coli	<10 cfu/g	Pass
Coliforms	<10 cfu/g	Pass
Salmonella	Negative	Pass
Staphylococcus aureus	<10 cfu/g	Pass

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

# BaiCalm Capsules Safety



Eurofins Microbiology Laboratories (New Berlin)

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Synaptent

Client Code: QH0000902  
PO#: 30101

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

## ANALYTICAL REPORT

AR-22-QH-056569-03  
Report Supersedes AR-22-QH-056569-02

Received On: 26Sep2022  
Reported On: 14Nov2022

<b>Eurofins Sample Code:</b> 477-2022-09260040	<b>Sample Registration Date:</b> 26Sep2022
<b>Client Sample Code:</b> 30101	<b>Condition Upon Receipt:</b> acceptable, 17.6°C
<b>Sample Description:</b> BaiCalm Capsules	<b>Sample Reference:</b>

<b>UM8VD - Total Coliforms - CMMEF Chapter 9.933</b>	<b>Reference</b> CMMEF Chapter 9.933	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 27Sep2022
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<b>Parameter</b>	<b>Result</b>
Coliforms	< 10 cfu/g

<b>Parameter</b>	<b>Result</b>
Escherichia coli	< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 27Sep2022
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<b>Parameter</b>	<b>Result</b>
Salmonella	Not Detected per 25 g

<b>UMHBM - Staphylococcus aureus - BAM Chapter 12</b>	<b>Reference</b> BAM Chapter 12	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 28Sep2022
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<b>Parameter</b>	<b>Result</b>
Staphylococcus aureus	< 10 cfu/g

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 01Oct2022
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<b>Parameter</b>	<b>Result</b>
Yeast	< 10 cfu/g

<b>Parameter</b>	<b>Result</b>
Moulds	< 10 cfu/g

<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 28Sep2022
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Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-056569-03  
Report Supersedes AR-22-QH-056569-02

Client Code: QH0000902  
PO#: 30101

Received On: 26Sep2022  
Reported On: 14Nov2022

<b>Eurofins Sample Code:</b> 477-2022-09260040	<b>Sample Registration Date:</b> 26Sep2022		
<b>Client Sample Code:</b> 30101	<b>Condition Upon Receipt:</b> acceptable, 17.6°C		
<b>Sample Description:</b> BaiCalm Capsules	<b>Sample Reference:</b>		
<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 28Sep2022

<b>Parameter</b>	<b>Result</b>
Aerobic Plate Count	< 10 cfu/g

### Report Comment:

New version AR: Metals test parameters have been removed and transcribed to separate COA. - Corporate Quality has authorized this update.

Subcontracting partners:

1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Patricia Quinn  
Associate Project Manager I



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# Scutellaria Baicalensis Extract, Page 1



12 July 2022

Job Number:	26067
PO Number:	Verbal

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

## REPORT OF ANALYSIS

One blue container with powder labeled "BAICALEIN 202201064426" was received on 7 July 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 98.1%.

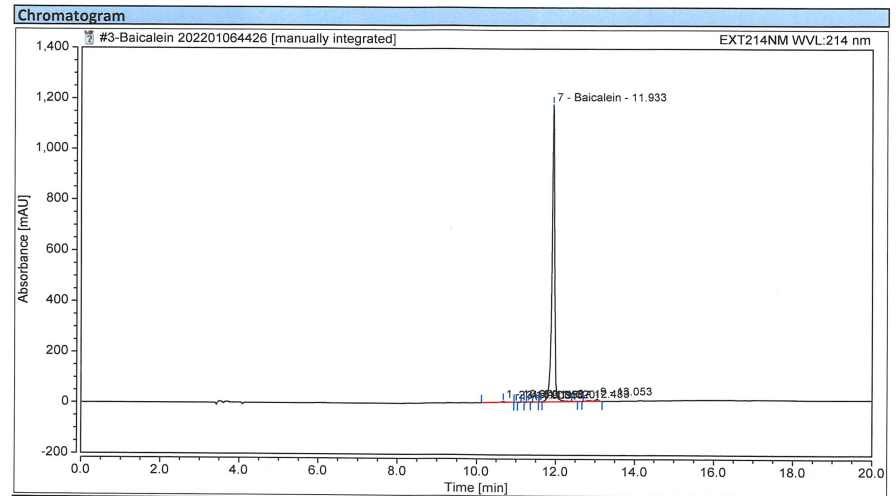
The chromatogram is enclosed for your reference.

Chris French, PhD  
Principal Scientist

Instrument:Annex-2 Sequence:26067-Baicalein Purity

Page 1 of 1

Chromatogram and Results			
<b>Injection Details</b>			
Injection Name:	Baicalein 202201064426	Run Time (min):	25.00
Vial Number:	RE2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	EXT214NM
Calibration Level:		Wavelength:	n.a.
Instrument Method:	AD 250mm MaxRP 25min Purity Method	Bandwidth:	n.a.
Processing Method:	Processing Method	Dilution Factor:	1.0000
Injection Date/Time:	08/Jul/22 12:25	Sample Weight:	1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount
1		10.673	0.569	4.002	0.59	0.34	n.a.
2		11.000	0.005	0.096	0.01	0.01	n.a.
3		11.197	0.003	0.000	0.00	0.00	n.a.
4		11.313	0.010	0.196	0.01	0.02	n.a.
5		11.507	0.023	0.318	0.02	0.03	n.a.
6		11.620	0.009	0.240	0.01	0.02	n.a.
7	Baicalein	11.933	94.006	1170.906	98.10	98.79	n.a.
8		12.483	0.017	0.224	0.02	0.02	n.a.
9		13.053	1.184	9.317	1.24	0.79	n.a.
<b>Total:</b>			<b>95.827</b>	<b>1185.299</b>	<b>100.00</b>	<b>100.00</b>	

# Scutellaria Baicalensis Extract, Page 2



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Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-038847-01

Client Code: QH0000902  
PO#: 202201064426

Received On: 07Jul2022  
Reported On: 14Jul2022

<b>Eurofins Sample Code:</b> 477-2022-07070232	<b>Sample Registration Date:</b> 07Jul2022
<b>Client Sample Code:</b> 202201064426	<b>Condition Upon Receipt:</b> acceptable, 22°C
<b>Sample Description:</b> Baicalein	<b>Sample Reference:</b>

<b>FS001 - Heavy Metals (As, Cd, Hg, and Pb)</b>	<b>Reference</b> AOAC 2011.19 and 993.14 (modified)	<b>Accreditation</b>	<b>Completed</b> 14Jul2022	<b>Sub</b> 1
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Parameter	Result
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	62.0 ppb
Mercury	<5.00 ppb

<b>UM8VD - Total Coliforms - CMMEF Chapter 9.933</b>	<b>Reference</b> CMMEF Chapter 9.933	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Jul2022
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Parameter	Result
Coliforms	< 10 cfu/g
Escherichia coli	< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Jul2022
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Parameter	Result
Salmonella	Not Detected per 25 g

<b>UMHBM - Staphylococcus aureus - BAM Chapter 12</b>	<b>Reference</b> BAM Chapter 12	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Jul2022
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Parameter	Result
Staphylococcus aureus	< 10 cfu/g

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 12Jul2022
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Parameter	Result
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Synaptent

Quality Control Department (COA)  
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Lincolnshire, IL 60069

## ANALYTICAL REPORT

AR-22-QH-038847-01

Client Code: QH0000902  
PO#: 202201064426

Received On: 07Jul2022  
Reported On: 14Jul2022

<b>Eurofins Sample Code:</b> 477-2022-07070232	<b>Sample Registration Date:</b> 07Jul2022
<b>Client Sample Code:</b> 202201064426	<b>Condition Upon Receipt:</b> acceptable, 22°C
<b>Sample Description:</b> Baicalein	<b>Sample Reference:</b>

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 12Jul2022
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Parameter	Result
Yeast	< 10 cfu/g
Moulds	< 10 cfu/g

<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Jul2022
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Parameter	Result
Aerobic Plate Count	< 10 cfu/g

Subcontracting partners:  
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Patricia Quinn  
Associate Project Manager I



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# Magnolia Bark Extract



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Lincolnshire, IL 60069

## ANALYTICAL REPORT

AR-22-QH-054045-02  
Report Supersedes AR-22-QH-054045-01

Client Code: QH0000902  
PO#: 1060204Z95

Received On: 14Sep2022  
Reported On: 22Sep2022

<b>Eurofins Sample Code:</b> 477-2022-09140078	<b>Sample Registration Date:</b> 14Sep2022
<b>Client Sample Code:</b> 1060204Z95	<b>Condition Upon Receipt:</b> acceptable, 19.4°C
<b>Sample Description:</b> Magnolia Bark Extract	<b>Sample Reference:</b>

FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference	Accreditation	Completed	Sub
	AOAC 2011.19, 993.14 and 2015.01 (modified)		19Sep2022	1

Parameter	Result
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	32.8 ppb
Mercury	<5.00 ppb

M908C - Honokiol and Magnolol by HPLC	Reference	Accreditation	Completed	Sub
	Internal method		22Sep2022	2

Parameter	Result
Honokiol	381,000 µg/g
Magnolol	626,000 µg/g

UM8VD - Total Coliforms - CMMEF Chapter 9.933	Reference	Accreditation	Completed
	CMMEF Chapter 9.933	ISO/IEC 17025:2017 A2LA 3329.07	15Sep2022

Parameter	Result
Coliforms	< 10 cfu/g

Parameter	Result
Escherichia coli	< 10 cfu/g

UMDTC - Salmonella species - AOAC-RI 121501	Reference	Accreditation	Completed
	AOAC-RI 121501	ISO/IEC 17025:2017 A2LA 3329.07	15Sep2022

Parameter	Result
Salmonella	Not Detected per 25 g

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference	Accreditation	Completed
	BAM Chapter 12	ISO/IEC 17025:2017 A2LA 3329.07	16Sep2022

Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-054045-02  
Report Supersedes AR-22-QH-054045-01

Client Code: QH0000902  
PO#: 1060204Z95

Received On: 14Sep2022  
Reported On: 22Sep2022

<b>Eurofins Sample Code:</b> 477-2022-09140078	<b>Sample Registration Date:</b> 14Sep2022
<b>Client Sample Code:</b> 1060204Z95	<b>Condition Upon Receipt:</b> acceptable, 19.4°C
<b>Sample Description:</b> Magnolia Bark Extract	<b>Sample Reference:</b>

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference	Accreditation	Completed
	BAM Chapter 12	ISO/IEC 17025:2017 A2LA 3329.07	16Sep2022

Parameter	Result
Staphylococcus aureus	< 10 cfu/g

UMIB1 - Yeast - FDA BAM Chapter 18 mod.	Reference	Accreditation	Completed
	FDA BAM Chapter 18 mod.	ISO/IEC 17025:2017 A2LA 3329.07	19Sep2022

Parameter	Result
Yeast	< 10 cfu/g

Parameter	Result
Moulds	< 10 cfu/g

UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72	Reference	Accreditation	Completed
	CMMEF Chapter 8.72	ISO/IEC 17025:2017 A2LA 3329.07	16Sep2022

Parameter	Result
Aerobic Plate Count	< 10 cfu/g

Subcontracting partners:

- 1 - Eurofins Food Chemistry Testing US Madison, WI
- 2 - Eurofins Botanical Testing US Brea, California

Respectfully Submitted,

Patricia Quinn  
Associate Project Manager I



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# L-Theanine, Page 1



## S & N LABS

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

14 April 2022

Job Number:	25815a2
PO Number:	verbal

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

### REPORT OF ANALYSIS

One small jar labeled "L-Theanine #2019011201" was received on 25 March 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 195nm. The results are summarized in the table below.

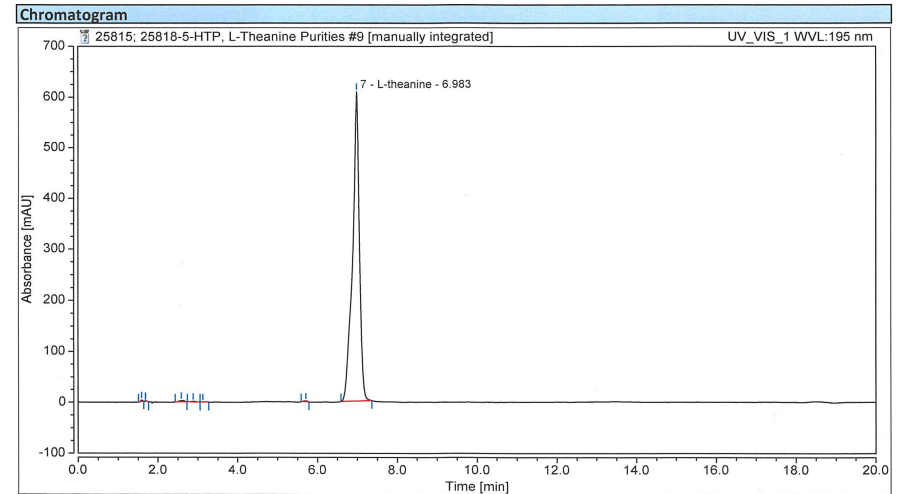
Sample	Chromatographic Purity (% area)
L-Theanine #2019011201	99.2

Neil E. Spingarn, Ph.D.  
President

Instrument:Annex-1 Sequence:25815; 25818-5-HTP, L-Theanine Purities

Page 1 of 1

Chromatogram and Results			
<b>Injection Details</b>			
Injection Name:	L-Theanine 2019011201	Run Time (min):	25.00
Vial Number:	BD3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	195
Instrument Method:	BA Ionic Strength Scherzo Method	Bandwidth:	10
Processing Method:	Processing Method	Dilution Factor:	1.0000
Injection Date/Time:	29/Mar/22 20:28	Sample Weight:	1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount
1		1.587	0.110	3.263	0.09	0.53	n.a.
2		1.693	0.025	1.171	0.02	0.19	n.a.
3		2.587	0.411	3.068	0.34	0.50	n.a.
4		2.883	0.140	1.032	0.12	0.17	n.a.
5		3.127	0.017	0.134	0.01	0.02	n.a.
6		5.707	0.206	1.824	0.17	0.29	n.a.
7	L-theanine	6.983	119.596	608.195	99.25	98.30	n.a.
<b>Total:</b>			<b>120.505</b>	<b>618.688</b>	<b>100.00</b>	<b>100.00</b>	

# L-Theanine, Page 2



**Eurofins Microbiology Laboratories (New Berlin)**

Eurofins Microbiology Laboratories (New Berlin)

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Synaptent

**Client Code:** QH0000902  
**PO#:** 2019011201

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

## ANALYTICAL REPORT

AR-22-QH-017034-01

**Received On:** 24Mar2022  
**Reported On:** 31Mar2022

Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-017034-01

**Client Code:** QH0000902  
**PO#:** 2019011201

**Received On:** 24Mar2022  
**Reported On:** 31Mar2022

<b>Eurofins Sample Code:</b> 477-2022-03240175	<b>Sample Registration Date:</b> 24Mar2022
<b>Client Sample Code:</b> 2019011201	<b>Condition Upon Receipt:</b> acceptable, 17.1°C
<b>Sample Description:</b> L-Theanine	<b>Sample Reference:</b>

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 29Mar2022
<b>Parameter</b> Yeast	<b>Result</b> < 10 cfu/g	
<b>Parameter</b> Moulds	<b>Result</b> < 10 cfu/g	

<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 26Mar2022
<b>Parameter</b> Aerobic Plate Count	<b>Result</b> < 10 cfu/g		

Subcontracting partners:  
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Anthony Bichler  
Operations Supervisor



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<b>Eurofins Sample Code:</b> 477-2022-03240175	<b>Sample Registration Date:</b> 24Mar2022
<b>Client Sample Code:</b> 2019011201	<b>Condition Upon Receipt:</b> acceptable, 17.1°C
<b>Sample Description:</b> L-Theanine	<b>Sample Reference:</b>

<b>FS001 - Heavy Metals (As, Cd, Hg, and Pb)</b>	<b>Reference</b> AOAC 2011.19 and 993.14 (modified)	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 2918.01	<b>Completed</b> 31Mar2022	<b>Sub</b> 1
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<b>Parameter</b> Arsenic	<b>Result</b> <10.0 ppb
<b>Parameter</b> Cadmium	<b>Result</b> <5.00 ppb
<b>Parameter</b> Lead	<b>Result</b> 57.6 ppb
<b>Parameter</b> Mercury	<b>Result</b> <5.00 ppb

<b>UM8VD - Total Coliforms - CMMEF Chapter 9.933</b>	<b>Reference</b> CMMEF Chapter 9.933	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 25Mar2022
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<b>Parameter</b> Coliforms	<b>Result</b> < 10 cfu/g
<b>Parameter</b> Escherichia coli	<b>Result</b> < 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 25Mar2022
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<b>Parameter</b> Salmonella	<b>Result</b> Not Detected per 25 g
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<b>UMHBM - Staphylococcus aureus - BAM Chapter 12</b>	<b>Reference</b> BAM Chapter 12	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 26Mar2022
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<b>Parameter</b> Staphylococcus aureus	<b>Result</b> < 10 cfu/g
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<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 29Mar2022
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<b>Parameter</b>	<b>Result</b>
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# Curcumin, Page 1



## S & N LABS

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

12 April 2022

Job Number:	25857a
PO Number:	verbal

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

### REPORT OF ANALYSIS

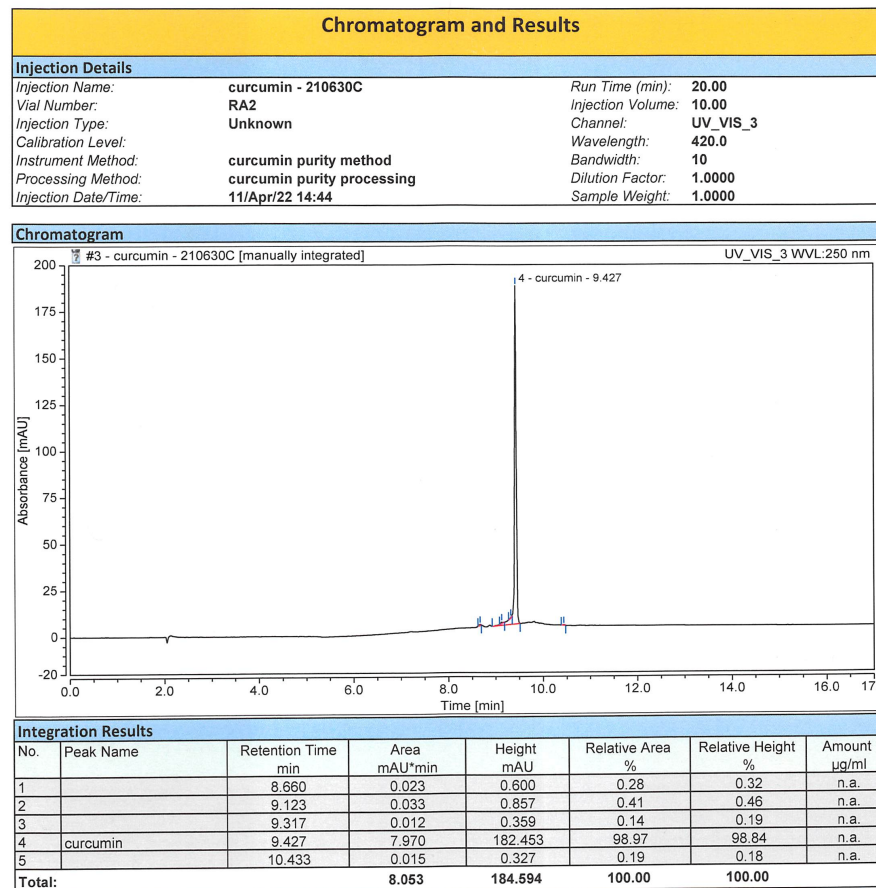
One small jar labeled "Curcumin #210630C" was received on 8 April 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 250nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Curcumin #210630C	99.0

Neil E. Spingam, Ph.D.  
President

Instrument:Ultimate3000 Sequence:25857 - curcumin piperine purity by HPLC

Page 1 of 3





# Curcumin, Page 2



**Eurofins Microbiology Laboratories (New Berlin)**

Eurofins Microbiology Laboratories (New Berlin)

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

Synaptent

Client Code: QH0000902  
PO#: 210630C

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

## ANALYTICAL REPORT

AR-22-QH-019749-01

Received On: 07Apr2022  
Reported On: 13Apr2022

<b>Eurofins Sample Code:</b> 477-2022-04070153	<b>Sample Registration Date:</b> 07Apr2022
<b>Client Sample Code:</b> 210630C	<b>Condition Upon Receipt:</b> acceptable, 16.3°C
<b>Sample Description:</b> Curcumin	<b>Sample Reference:</b>

<b>FS001 - Heavy Metals (As, Cd, Hg, and Pb)</b>	<b>Reference</b> AOAC 2011.19 and 993.14 (modified)	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 2918.01	<b>Completed</b> 13Apr2022	<b>Sub</b> 1
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Parameter	Result
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	7.01 ppb
Mercury	<5.00 ppb

<b>UM8VD - Total Coliforms - CMMEF Chapter 9.933</b>	<b>Reference</b> CMMEF Chapter 9.933	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Apr2022
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Parameter	Result
Coliforms	< 10 cfu/g

Parameter	Result
Escherichia coli	< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Apr2022
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Parameter	Result
Salmonella	Not Detected per 25 g

<b>UMHBM - Staphylococcus aureus - BAM Chapter 12</b>	<b>Reference</b> BAM Chapter 12	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Apr2022
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Parameter	Result
Staphylococcus aureus	< 10 cfu/g

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 12Apr2022
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Parameter	Result
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## ANALYTICAL REPORT

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<b>Client Sample Code:</b> 210630C	<b>Condition Upon Receipt:</b> acceptable, 16.3°C
<b>Sample Description:</b> Curcumin	<b>Sample Reference:</b>

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 12Apr2022
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Parameter	Result
Yeast	< 10 cfu/g

Parameter	Result
Moulds	< 10 cfu/g

<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Apr2022
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Parameter	Result
Aerobic Plate Count	< 10 cfu/g

Subcontracting partners:  
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Anthony Bichler  
Operations Supervisor



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](http://www.eurofinsus.com/terms_and_conditions.pdf) | v Indicates 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.

# Sinomenium Acutum Stem Extract, Page 1



## S & N LABS

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

25 February 2021

Job Number:	24784a
PO Number:	verbal

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

### REPORT OF ANALYSIS

One jar labeled "Sinomenine #210216" was received on 23 February 2021. The powder in the jar was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 202nm. The results are summarized in the table below.

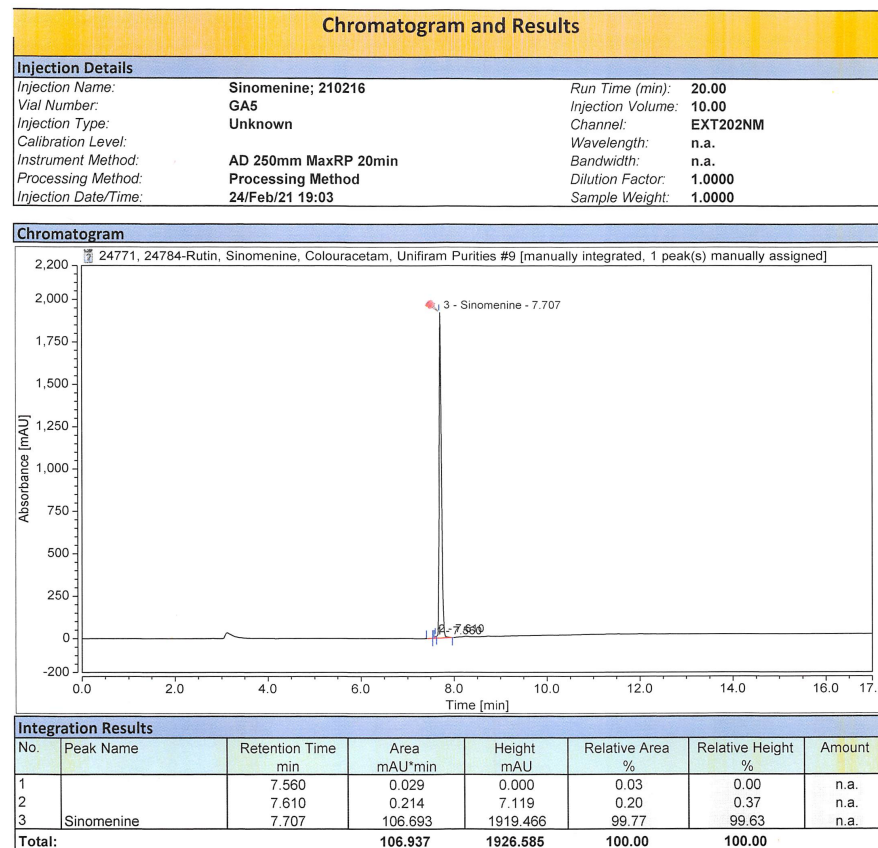
Sample	Chromatographic Purity (% area)
Sinomenine #210216	99.8

The chromatogram is enclosed for your reference.

Neil E. Spingam, Ph.D.  
President

Instrument:Annex-2 Sequence:24771, 24784-Rutin, Sinomenine, Colouracetam, Unifiram Purities

Page 1 of 1



# Sinomenium Acutum Stem Extract, Page 2



Medallion Labs

www.medallionlabs.com 800-245-5615 info@medlabs.com

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**Order # Sample ID:** 2021-001717-01 **Company:** Synaptent LLC  
**Customer Sample ID:** Sinomenine  
**Sample Description:** Lot #210216

## Analytical Testing

<u>Method:</u>	<u>Component:</u>	<u>Result:</u>	<u>Test Date:</u>
<sup>1 2</sup> Mercury	Mercury	<0.010 ppm	02-Mar-2021
Metals (ICP-MS)	Arsenic	<10 ppb	26-Feb-2021
Metals (ICP-MS)	Cadmium	<10 ppb	26-Feb-2021
Metals (ICP-MS)	Lead	11.9 ppb	26-Feb-2021

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Medallion Labs maintains A2LA accreditation to ISO/IEC 17025 for the specific tests listed in certificates # 2769.01 and 2769.02.

Medallion Labs' services, including this report, are provided subject to all provisions of Medallion's Standard Terms and Conditions, a copy of which appears at [www.medallionlabs.com](http://www.medallionlabs.com). Unless otherwise noted above, samples were received in acceptable condition and analyzed as received.

<sup>1</sup> This analysis is performed by a partner lab.

<sup>2</sup> This test is not considered in-scope of our current A2LA accreditation. For a listing of in-scope tests, please visit [www.medallionlabs.com](http://www.medallionlabs.com).

# Black Pepper Fruit Extract, Page 1



## S & N LABS

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

12 April 2022


Job Number:	25857b
PO Number:	verbal

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

### REPORT OF ANALYSIS

One small jar labeled "Piperine #2021026504" was received on 8 April 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 250nm. The results are summarized in the table below.

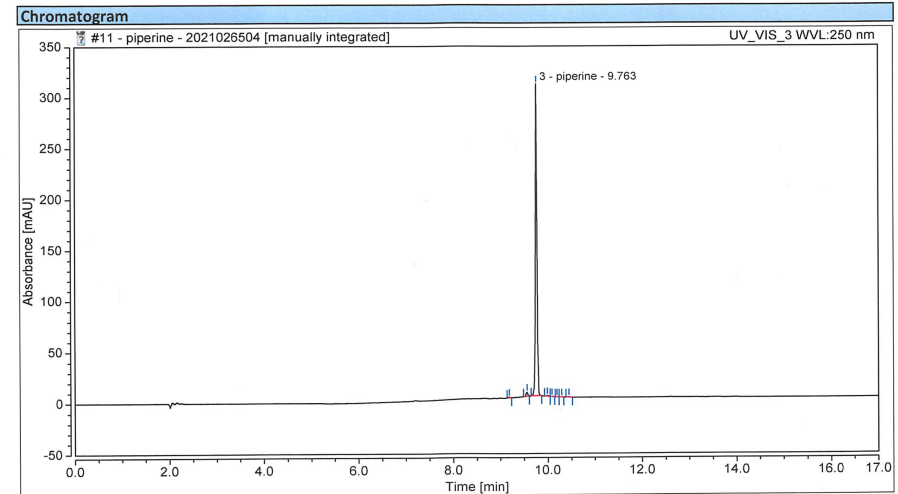
Sample	Chromatographic Purity (% area)
Piperine #2021026504	97.8

  
Neil E. Spingam, Ph.D.  
President

Instrument:Ultimate3000 Sequence:25857 - curcumin piperine purity by HPLC

Page 1 of 3

Chromatogram and Results		
<b>Injection Details</b>		
Injection Name:	piperine - 2021026504	Run Time (min): 20.00
Vial Number:	RA4	Injection Volume: 20.00
Injection Type:	Unknown	Channel: UV_VIS_3
Calibration Level:		Wavelength: 342.0
Instrument Method:	piperine purity method	Bandwidth: 10
Processing Method:	piperine purity processing	Dilution Factor: 1.0000
Injection Date/Time:	11/Apr/22 17:52	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount µg/ml
1		9.183	0.026	0.693	0.22	0.22	n.a.
2		9.557	0.158	4.102	1.29	1.31	n.a.
3	piperine	9.763	11.977	305.972	97.81	97.91	n.a.
4		9.983	0.037	0.866	0.30	0.28	n.a.
5		10.083	0.009	0.151	0.08	0.05	n.a.
6		10.190	0.004	0.112	0.03	0.04	n.a.
7		10.287	0.006	0.157	0.05	0.05	n.a.
8		10.440	0.027	0.485	0.22	0.15	n.a.
<b>Total:</b>			<b>12.245</b>	<b>312.518</b>	<b>100.00</b>	<b>100.00</b>	

# Black Pepper Fruit Extract, Page 2



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Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-019691-01

Client Code: QH0000902  
PO#: 2021026504

Received On: 07Apr2022  
Reported On: 12Apr2022

Synaptent

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

## ANALYTICAL REPORT

AR-22-QH-019691-01

Client Code: QH0000902  
PO#: 2021026504

Received On: 07Apr2022  
Reported On: 12Apr2022

<b>Eurofins Sample Code:</b> 477-2022-04070152	<b>Sample Registration Date:</b> 07Apr2022
<b>Client Sample Code:</b> 2021026504	<b>Condition Upon Receipt:</b> acceptable, 16.3°C
<b>Sample Description:</b> Piperine	<b>Sample Reference:</b>

<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 12Apr2022
<b>Parameter</b> Yeast	<b>Result</b> < 10 cfu/g	
<b>Parameter</b> Moulds	<b>Result</b> < 10 cfu/g	

<b>UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72</b>	<b>Reference</b> CMMEF Chapter 8.72	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Apr2022
<b>Parameter</b> Aerobic Plate Count	<b>Result</b> < 10 cfu/g		

Subcontracting partners:  
1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,

Anthony Bichler  
Operations Supervisor



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<b>Eurofins Sample Code:</b> 477-2022-04070152	<b>Sample Registration Date:</b> 07Apr2022
<b>Client Sample Code:</b> 2021026504	<b>Condition Upon Receipt:</b> acceptable, 16.3°C
<b>Sample Description:</b> Piperine	<b>Sample Reference:</b>

<b>FS001 - Heavy Metals (As, Cd, Hg, and Pb)</b>	<b>Reference</b> AOAC 2011.19 and 993.14 (modified)	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 2918.01	<b>Completed</b> 12Apr2022	<b>Sub</b> 1
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<b>Parameter</b> Arsenic	<b>Result</b> <10.0 ppb
<b>Parameter</b> Cadmium	<b>Result</b> <5.00 ppb
<b>Parameter</b> Lead	<b>Result</b> <5.00 ppb
<b>Parameter</b> Mercury	<b>Result</b> <5.00 ppb

<b>UM8VD - Total Coliforms - CMMEF Chapter 9.933</b>	<b>Reference</b> CMMEF Chapter 9.933	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Apr2022
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<b>Parameter</b> Coliforms	<b>Result</b> < 10 cfu/g
<b>Parameter</b> Escherichia coli	<b>Result</b> < 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 08Apr2022
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<b>Parameter</b> Salmonella	<b>Result</b> Not Detected per 25 g
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<b>UMHBM - Staphylococcus aureus - BAM Chapter 12</b>	<b>Reference</b> BAM Chapter 12	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.07	<b>Completed</b> 09Apr2022
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<b>Parameter</b> Staphylococcus aureus	<b>Result</b> < 10 cfu/g
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<b>UMIB1 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Completed</b> 12Apr2022
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<b>Parameter</b>	<b>Result</b>
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