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



MoodLift Capsules

MoodLift Capsules

Material Lot #: 205066 Test Date: 06/16/2022

Country of Origin: USA / China /South Africa Re-Test Date: 06/13/2025

MoodLift Capsules Formula

Ingredient	Serving	Test/Method	Specification	Result
Vitamin B6 (as Pyridoxine HCL)	3mg	Pyridoxine HCL (HPLC)	≥98%	Pass
Folate	1000mcg	Folic Acid (LS-MS/MS)	≥97%	Pass
Vitamin B12 (as Methylcobalamin)	600mcg	Methylcobalamin (HPLC)	≥98%	Pass
Kanna Aerial Parts Extract	28mg	≥5% Alkaloids ≥3% Mesembrine and (HPLC)	≥5%,≥3%	Pass
Oroxylin A	18mg	Oroxylin A (HPLC)	≥98%	Pass
5-Hydoxytryptophan (5-HTP)	28mg	5-hydroxytryptopha "5-HTP" (HPLC)	≥99%	Pass
7,8-Dihydroxyflavone (7,8-DHF)	36mg	7,8-DHF "tropoflavin" (HPLC)	≥98%	Pass
Baicalein	28mg	Baicalein (HPLC)	≥98%	Pass
Benfotiamine (Vitamin B1)	28mg	Benfotiamine "Vitamin B1" (LC-DAD)	≥98%	Pass
Citicoline (CDP-Choline)	28mg	Citicoline Sodium (HPLC)	≥99%	Pass
Magnolol	28mg	Magnolol (HPLC)	≥98%	Pass
Piperine	6mg	Piperine (HPLC)	≥95%	Pass
Tetrahydroharmine (THH)	18mg	Tetrahydroharmine (HPLC)	≥99%	Pass
Triacetyluridine (TAU)	18mg	Triacetyluridine "TAU" (HPLC)	≥98%	Pass
Sinomenium accutum Stem Extract	36mg	Sinomenine HCl (HPLC)	≥98%	Pass
Arctic Root Extract (Rhodiola rosea)	56mg	≥5% Rosavins ≥3% Salidrosides (HPLC)	≥5%,≥3%	Pass
Gotu Kola Aerial Parts Extract	28mg	Triterpenoids (HPLC)	≥70%	Pass
Ginseng Root Extract Blend	56mg	Ginsenosides (HPLC)	≥30%	Pass
Peony Root Extract	38mg	Paeoniflorin & Albiflorin (HPLC)	≥50%	Pass
Barley Malt Sprout Extract	18mg	Hordenine HCl (HPLC)	≥98%	Pass

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



MoodLift Capsules

MoodLift Capsules

Material Lot #: 205066 Test Date: 06/16/2022

Country of Origin: USA / China /South Africa Re-Test Date: 06/13/2025

MoodLift Capsules Safety

WoodEnt Capsules Safety					
Test	Specification	Result			
Lead	≤0.5 ppm	0.0557 ppm	Pass		
Mercury	≤0.5 ppm	<0.005 ppm	Pass		
Cadmium	≤0.5 ppm	<0.005 ppm	Pass		
Arsenic	≤0.5 ppm	0.0675 ppm	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		

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

MoodLift Capsules



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

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

ANALYTICAL REPORT

AR-22-QH-032977-01

Client Code: QH0000902 **PO#**: 1901001

Received On: 28May2022 Reported On: 16Jun2022

Eurofins Sample Code: Client Sample Code: Sample Description:	477-2022-05280 205066 MoodLift Capsul		Sample Registration Condition Upon Rec Sample Reference:	Date: 28May2022 eipt: acceptable, 19.6°C	:	
FS001 - Heavy Metals (A Pb)	s, Cd, Hg, and	Reference AOAC 2011.19 a	and 993.14 (modified)	Accreditation	Completed 07Jun2022	Sub 1
Parameter Arsenic Cadmium Lead Mercury		Result 55.7 ppb <5.00 ppb 67.5 ppb <5.00 ppb				
M901R - Moisture - Karl	Fischer	Reference USP <921> Metl	hod 1a	Accreditation	Completed 16Jun2022	Sub 2
Parameter Moisture		Result 4.96 %				
M902B - Methylcobalam	in	Reference Internal method		Accreditation	Completed 16Jun2022	Sub 2
Parameter Methylcobalamin		Result 1,070 μg/g				
UM8VD - Total Coliforms	s - CMMEF	Reference		Accreditation	Completed	

Chapter 9.933 CMMEF Chapter 9.933

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

UMDTC - Salmonella spp. - AOAC-RI 121501

Parameter

Salmonella

Reference AOAC-RI 121501 Accreditation ISO/IEC 17025:2017 A2LA 3329.07

ISO/IEC 17025:2017

A2LA 3329.07

Completed 29May2022

29May2022

Result

Not Detected per 25 g

Synaptent

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

ANALYTICAL REPORT

AR-22-QH-032977-01

Client Code: QH0000902 PO#: 1901001

Received On: 28May2022 Reported On: 16Jun2022

Eurofins Sample Code: 477-2022-05280124 Sample Registration Date: 28May2022 Client Sample Code: 205066 Condition Upon Receipt: acceptable, 19.6°C

MoodLift Capsules Sample Description: Sample Reference:

UMHBM - Staphylococcus aureus - BAM Reference Accreditation Completed BAM Chapter 12 ISO/IEC 17025:2017 31May2022 Chapter 12 A2LA 3329.07

Result Parameter Staphylococcus aureus < 10 cfu/g

UMIB1 - Yeast - FDA BAM Chapter 18 Reference Accreditation Completed mod. FDA BAM Chapter 18 mod. ISO/IEC 17025:2017 02Jun2022 A2LA 3329.07

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

UMVSE - Aerobic Plate Count - CMMEF Reference Accreditation Completed Chapter 8.72 CMMEF Chapter 8.72 ISO/IEC 17025:2017 30May2022 A2LA 3329.07

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

Results shown in this report relate solely to the item submitted for analysis, I 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 6/16/22 5:02 pm 6/16/22 5:02 nm

Pyridoxine HCL (Vitamin B6)



Order # Sample ID: 2021-001626-02 Synaptent LLC

Pyroxidine HCL (Vitamin B6) **Customer Sample ID:**

Lot #18123041 **Sample Description:**

Analytical Testing

Method: **Test Date: Component: Result:** ^{1 2} Pyridoxine (Vitamin B6) Pyridoxine (Vitamin B6) 99.8 % 05-Mar-2021

Results Approved By: Emily Franks

(Authorized Reviewer)



Analytical Method References:

Method Name

Method Reference

Niacin

Please contact for Method Details

Pyridoxine (Vitamin B6)

Please contact for Method Details

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. Unless otherwise noted above, samples were received in acceptable condition and analyzed as received.

appears at www.medallionlabs.com. Unless otherwise noted above, samples were received in acceptable condition and analyzed as received. ² This test is not considered in-scope of our current A2LA accreditation. For a listing of in-scope tests, please visit www.medallionlabs.com.

Medallion Labs' services, including this report, are provided subject to all provisions of Medallion's Standard Terms and Conditions, a copy of which

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

1 This analysis is performed by a partner lab.

Page 2 of 3

¹ This analysis is performed by a partner lab.

² This test is not considered in-scope of our current A2LA accreditation. For a listing of in-scope tests, please visit www.medallionlabs.com

Folate (Folic Acid)



Order # Sample ID: 2021-002416-01 Company: Synaptent LLC

Customer Sample ID: Folic Acid
Sample Description: Lot #4200101

Analytical Testing

 Method:
 Component:
 Result:
 Test Date:

 1 2 Folic Acid LC-MS/MS
 Folic Acid LC-MS/MS
 98.6 %
 08-Apr-2021

Results Approved By: Jamie Reese

(Authorized Reviewer)



Analytical Method References:

Method Name

Method Reference

Folic Acid LC-MS/MS Please contact for Method Details

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

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¹ This analysis is performed by a partner lab.

Date Issued: April 08, 2021

Page 2 of 3

² This test is not considered in-scope of our current A2LA accreditation. For a listing of in-scope tests, please visit www.medallionlabs.com.

appears at www.medallionlabs.com. Unless otherwise noted above, samples were received in acceptable condition and analyzed as received.

Medallion Labs' services, including this report, are provided subject to all provisions of Medallion's Standard Terms and Conditions, a copy of which

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Date Issued: April 08, 2021 Medallion Labs 9000 Plymouth Ave. N., Minneapolis, MN 55427 Report #: 40872

Medallion Labs 9000 Plymouth Ave. N., Minneapolis, MN 55427 Report #: 40872

eport #: 40872 Page 3 of 3

¹ This analysis is performed by a partner lab.

² This test is not considered in-scope of our current A2LA accreditation. For a listing of in-scope tests, please visit www.medallionlabs.com

Kanna Aerial Parts Extract



Eurofins Microbiology Laboratories (New Berlin)

Client Code: QH0000902 PO#: 107200820

Received On: 21Jan2022

Reported On: 31Jan2022

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

Synaptent

Joseph Watkins 1442 W. Fulton Street Chicago, IL 60607

ANALYTICAL REPORT

AR-22-QH-004671-02 Report Supersedes AR-22-QH-004671-01 Synaptent

Joseph Watkins 1442 W. Fulton Street Chicago, IL 60607

ANALYTICAL REPORT

AR-22-QH-004671-02 Report Supersedes AR-22-QH-004671-01 Client Code: QH0000902 PO#: 107200820

Received On: 21Jan2022 Reported On: 31Jan2022

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 | √ 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.

Eurofins Sample Code: 477-2022-01210375 Sample Registration Date: 21Jan2022 Client Sample Code: 21052521360521 Condition Upon Receipt: acceptable, 10.3°C

Sample Description: 3X KANNA EXTRACT MT165 Sample Reference: Ahmed

YI01X - Sceletium Alkaloids Reference Completed Sub (Mesembrine, Mesembrenone,..) South African Journal of Botany 82 26Jan2022

(2012) 99-107 (Result Parameter 39,500 µg/g Mesembrenone

Mesembrenol nd µg/g Mesembrine 189,000 µg/g Mesembranol 9,380 µg/g Total Reported Alkaloids 238,000 µg/g

Report Comment:

New Report Version: Amended to correct the lot number

Subcontracting partners:

1 - Eurofins SF Analytical DBA Craft Technologies, NC

Michael A Kaises

Respectfully Submitted,

Michael Kaiser

Associate Technical Leader

Page 1 of 2 Page 2 of 2 1/31/22 3:10 pm 1/31/22 3:10 pm

Oroxylin A



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

10 June 2021

Γ	Job Number:	25122b
Г	PO Number:	verbal

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

REPORT OF ANALYSIS

One blue container labeled "Oroxylin A 20210609" was received on 10 June 2021. The material was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was monitored at $271\,\mathrm{nm}$. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Oroxylin A 20210609	99.3

The chromatogram is enclosed for your reference.

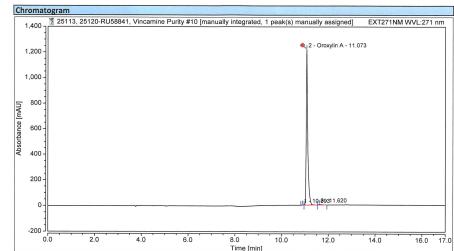
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:25113, 25120-RU58841, Vincamine Purity

Page 1 of 1

Chromatogram and Results					
Injection Details					
Injection Name:	Oroxylin A 20210609	Run Time (min):	20.00		
Vial Number:	RB6	Injection Volume:	10.00		
Injection Type:	Unknown	Channel:	EXT271NM		
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:	10/Jun/21 13:04	Sample Weight:	1.0000		



Integ	ration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		10.893	0.195	3.537	0.21	0.29	n.a.
2	Oroxylin A	11.073	91.617	1217.182	99.27	99.31	n.a.
3		11.620	0.480	4.936	0.52	0.40	n.a.
Total			92.292	1225.654	100.00	100.00	

Report Template/Integration Chromeleon (c) Dionex Version 7.2.10.23925

5-hydroxytryptophan (5-HTP)



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

10 June 2021

Job Number:	25112
PO Number:	verbal

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

REPORT OF ANALYSIS

One blue container labeled "5-HTP C062010003" was received on 7 June 2021. The material was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was monitored at 206 nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
5-HTP C062010003	99.9

The chromatogram is enclosed for your reference.

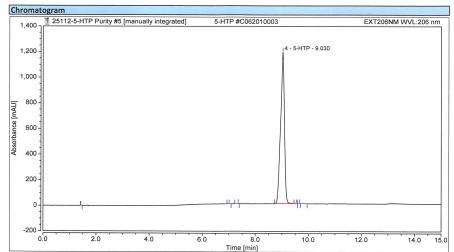
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-1 Sequence:25112-5-HTP Purity

Page 1 of 1

Chromatogram and Results					
Injection Details					
Injection Name:	5-HTP #C062010003	Run Time (min):	20.00		
Vial Number:	GB4	Injection Volume:	10.00		
Injection Type:	Unknown	Channel:	EXT206NM		
Calibration Level:		Wavelength:	n.a.		
Instrument Method:	AC Ionic Strength Scherzo Method	Bandwidth:	n.a.		
Processing Method:	Processing Method	Dilution Factor:	1.0000		
Injection Date/Time:	09/Jun/21 16:43	Sample Weight:	1.0000		



Integ	ration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		1.423	0.057	1.814	0.03	0.15	n.a.
2		7.010	0.056	0.911	0.03	0.08	n.a.
3		7.350	0.103	1.603	0.05	0.13	n.a.
4	5-HTP	9.030	198.161	1182.281	99.87	99.59	n.a.
5		9.540	0.028	0.408	0.01	0.03	n.a.
6		9.670	0.006	0.109	0.00	0.01	n.a.
Total:			198.411	1187.124	100.00	100.00	

Chromeleon (c) Dionex Report Template/Integration Version 7.2.10.23925

7,8-Dihydroxyflavone (7,8-DHF tropoflavin)



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

10 August 2021

Job Number:	25300ь
PO Number:	verbal

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

REPORT OF ANALYSIS

One blue jar labeled "7,8-DHF 20210727" was received on 5 August 2021. The material was analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 266nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
7,8-DHF 20210727	99.2

The chromatogram is enclosed for your reference.

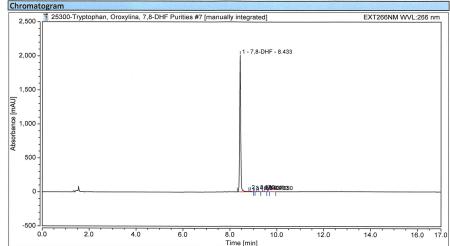
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:25300-Tryptophan, Oroxylina, 7,8-DHF Purities

Page 1 of 1

Chromatogram and Results			
Injection Details			
Injection Name:	7,8-DHF 20210727	Run Time (min):	20.00
Vial Number:	BE5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	EXT266NM
Calibration Level:		Wavelength:	n.a.
Instrument Method:	BD pH6 250mm MaxRP 20min	Bandwidth:	n.a.
Processing Method:	Processing Method	Dilution Factor:	1.0000
Injection Date/Time:	06/Aug/21 16:53	Sample Weight:	1.0000



Integ	Integration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1	7,8-DHF	8.433	107.028	2006.878	99.15	99.22	n.a.
2		8.870	0.558	9.419	0.52	0.47	n.a.
3		9.040	0.011	0.298	0.01	0.01	n.a.
4		9.227	0.164	3.169	0.15	0.16	n.a.
5		9.463	0.174	2.656	0.16	0.13	n.a.
6		9.650	0.013	0.305	0.01	0.02	n.a.
Tota	l: -		107.948	2022.725	100.00	100.00	

Report Template/Integration Chromeleon (c) Dionex Version 7.2.10.23925

Baicalein



Certificate of Analysis

Client:

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

Sample Collected By: Client

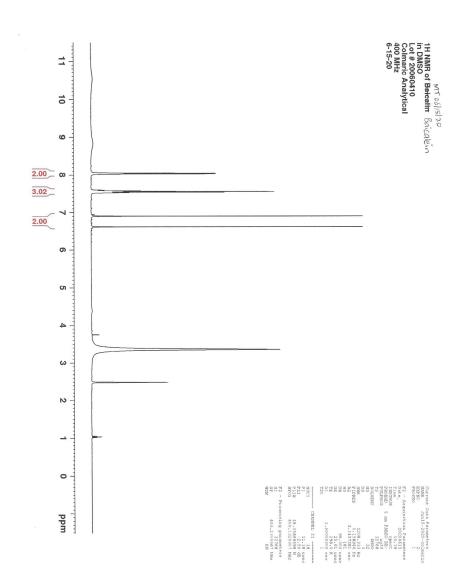
Product Name	Baicalein	Product Lot Number	20021810	
Report Date	06/20/20	Laboratory Number	20060410	

Description	Method	Result
Identification	H-NMR	Conforms
Assay	HPLC	99.5%
Lead	ICP-MS	0.26 ppm
Arsenic	ICP-MS	<0.03 ppm
Cadmium	ICP-MS	<0.01 ppm
Mercury	ICP-MS	<0.01 ppm
Total Aerobic Count	Biolumix	<100 cfu/g
Yeast & Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	<10 cfu/g
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Absent

Collin Thomas Mulling Laboratory Manager

06/20/2020 6/20/20

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Benfotiamine (Vitamin B1)



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

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

AR-22-QH-038919-01

Client Code: QH0000902

PO#: 160623

Received On: 22Jun2022 Reported On: 14Jul2022

Eurofins Sample Code: 477-2022-06220115 Sample Registration Date: 22Jun2022

Client Sample Code: 20202009-1 Condition Upon Receipt: acceptable, 21.2°C

Sample Description: Benfotiamine (Vitamin B1) Sample Reference:

Sample Description: Behicularinine (Vitalinin B1) Sample Reference

M904X - BenfotiamineReferenceAccreditationCompletedSubInternal method14Jul20221

Parameter Result

uinn

Benfotiamine 1,010,000 μg/g

Subcontracting partners:

1 - Eurofins Botanical Testing US Brea, California

Respectfully Submitted,

Christine Gwinn

Associate Technical Leader

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 | \frac{1}{2} 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.

Page 1 of 1 7/14/22 5:31 pm

Citicoline Sodium



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

31 January 2022

Job Number:	25696
PO Number:	verbal

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

REPORT OF ANALYSIS

One small jar labeled "Citicoline Sodium #20210301" was received on 27 January 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 212nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Citicoline Sodium #20210301	99.2

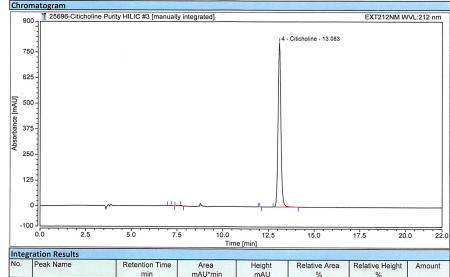
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-1 Sequence:25696-Citicholine Purity HILIC

Page 1 of 1

Chromatogram and Results				
Injection Details				
Injection Name:	Citicholine Sodium 20210301	Run Time (min):	25.00	
Vial Number:	RD5	Injection Volume:	10.00	
Injection Type:	Unknown	Channel:	EXT212NM	
Calibration Level:		Wavelength:	n.a.	
Instrument Method:	CA HILIC 25min Purity Method	Bandwidth:	n.a.	
Processing Method:	Processing Method	Dilution Factor:	1.0000	
Injection Date/Time:	27/Jan/22 16:53	Sample Weight:	1.0000	



	Integration Results						
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height	Amount
1 2 3 4	Olitabalia	7.183 7.703 12.020	0.451 0.657 0.012	2.258 2.521 0.125	0.31 0.46 0.01	0.28 0.31 0.02	n.a. n.a. n.a.
4 Tota	Citicholine :	13.083	142.877 143.998	801.633 806.537	99.22	99.39	n.a.

Report Template/Integration Chromeleon (c) Dionex Version 7.2.10.23925

Magnolol



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

4 August 2021

Job Number:	25285b	
PO Number:	verbal	

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

REPORT OF ANALYSIS

One packet labeled "Magnolol 98% Batch 012011069M" was received on 2 August 2021. The material was 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	
Magnolol 98% Batch 012011069M	99.8	

The chromatogram is enclosed for your reference.

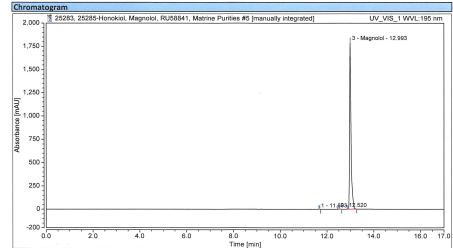
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:25283, 25285-Honokiol, Magnolol, RU58841, Matrine Purities

Page 1 of 1

Chromatogram and Results			
Injection Details			
Injection Name:	Magnolol Batch:012011069M	Run Time (min):	20.00
Vial Number:	GD3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	UV VIS 1
Calibration Level:		Wavelength:	195
Instrument Method:	AD 250mm MaxRP 20min	Bandwidth:	5
Processing Method:	Processing Method	Dilution Factor:	1.0000
Injection Date/Time:	03/Aug/21 18:26	Sample Weight:	1.0000



Inte	Integration Results								
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount		
		min	mAU*min	mAU	%	%			
1		11.693	0.007	0.189	0.01	0.01	n.a.		
2		12.520	0.228	3.920	0.18	0.22	n.a.		
3	Magnolol	12.993	125.819	1799.929	99.81	99.77	n.a.		
Tota	l:		126.054	1804.039	100.00	100.00			

Chromeleon (c) Dionex Report Template/Integration Version 7.2.10.23925

Piperine



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

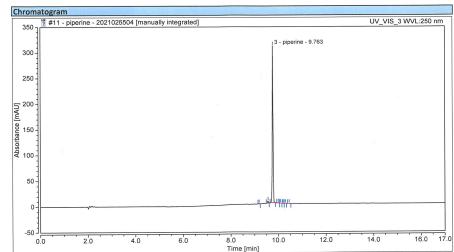
Neil E. Spingarn, Ph.D.

President

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

Page 1 of 3

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



Integration Results								
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount	
		min	mAU*min	mAU	%	%	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	0.465	0.22	0.15	n.a.	
Tota	l:		12.245	312.518	100.00	100.00		

Chromeleon (c) Dionex Version 7.2.10.23925

Tetrahydroharmine (THH)



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

20 November 2020

Job Number:	24526
PO Number:	verbal

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

REPORT OF ANALYSIS

One sealed bag labeled "Tetrahydroharmine #200928" was received on 16 November 2020. The powder in the bag was assayed for purity using high pressure liquid chromatography (HPLC) using UV detection at 224nm. The results are summarized in the table below.

Sample	Chromatographic Purity (%, w/w)
Tetrahydroharmine #200928	99.5

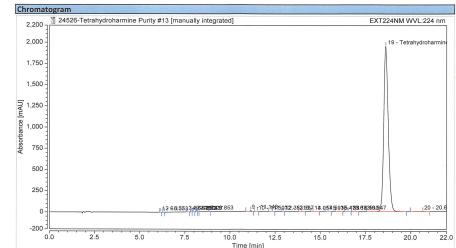
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:24526-Tetrahydroharmine Purity

Page 1 of 1

	Chromatogram and Results								
njection Details									
Injection Name:	Tetrahydroharmine; #200928; 450ppm	Run Time (min):	25.00						
Vial Number:	RD3	Injection Volume:	10.00						
Injection Type:	Unknown	Channel:	EXT224NM						
Calibration Level:		Wavelength:	n.a.						
Instrument Method:	#2 pH6 BD 80% 150mm MaxRP 20min	Bandwidth:	n.a.						
Processing Method:	Processing Method	Dilution Factor:	1.0000						
Injection Date/Time:	20/Nov/20 15:37	Sample Weight:	1.0000						



Time (timi)							
Inte	gration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		6.157	0.009	0.166	0.00	0.01	n.a.
2		6.353	0.004	0.000	0.00	0.00	n.a.
3		7.633	0.071	1.352	0.01	0.07	n.a.
4		7.850	0.020	0.533	0.00	0.03	n.a.
5		7.973	0.021	0.352	0.00	0.02	n.a.
6		8.143	0.004	0.101	0.00	0.01	n.a.
7		8.277	0.005	0.000	0.00	0.00	n.a.
8		8.853	0.047	1.177	0.01	0.06	n.a.
9		11.143	0.893	12.041	0.15	0.61	n.a.
10		11.507	0.021	0.186	0.00	0.01	n.a.
11		12.353	0.052	0.446	0.01	0.02	n.a.
12		12.937	0.012	0.159	0.00	0.01	n.a.
13		13.957	0.043	0.245	0.01	0.01	n.a.
14		14.593	0.046	0.166	0.01	0.01	n.a.
15		15.433	0.027	0.162	0.00	0.01	n.a.
16		16.033	0.201	1.188	0.03	0.06	n.a.
17		16.530	0.033	0.172	0.01	0.01	n.a.
18		16.947	0.051	0.282	0.01	0.01	n.a.
19	Tetrahydroharmine	18.620	574.644	1949.185	99.53	98.92	n.a.
20		20.673	1.164	2.512	0.20	0.13	n.a.
Tota	l:		577.370	1970.427	100.00	100.00	

Report Template/Integration

Chromeleon (c) Dionex Version 7.2.10.23925

Triacetyluridine (TAU)



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

8 February 2022

	Job Number:	25712b
Ì	PO Number:	verbal

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

REPORT OF ANALYSIS

One small jar labeled "TAU #20211114" was received on 4 February 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 259nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
TAU #20211114	98.1

The chromatogram is enclosed for your reference.

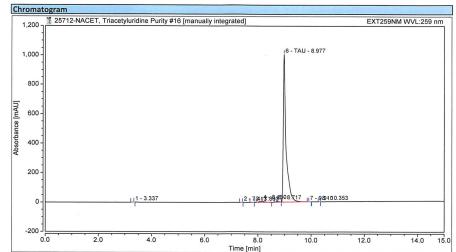
Neil E. Spingarn, Ph.D.

President

Instrument:Annex-2 Sequence:25712-NACET, Triacetyluridine Purity

Page 1 of 1

Chromatogram and Results						
Injection Details						
Injection Name:	TAU	Run Time (min):	25.00			
Vial Number:	RD4	Injection Volume:	10.00			
Injection Type:	Unknown	Channel:	EXT259NM			
Calibration Level:		Wavelength:	n.a.			
Instrument Method:	BD 250mm Hydro RP 25min Purity Method	Bandwidth:	n.a.			
Processing Method:	Processing Method	Dilution Factor:	1.0000			
Injection Date/Time:	08/Feb/22 12:02	Sample Weight:	1.0000			



Integ	gration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		3.337	0.009	0.112	0.01	0.01	n.a.
2		7.413	0.011	0.061	0.01	0.01	n.a.
3		7.863	0.008	0.000	0.01	0.00	n.a.
4		8.150	1.615	10.227	1.31	1.00	n.a.
5		8.717	0.732	7.074	0.60	0.69	n.a.
6	TAU	8.977	120.415	1004.194	98.06	98.27	n.a.
7		9.910	0.011	0.167	0.01	0.02	n.a.
8	T	10.353	0.002	0.000	0.00	0.00	n.a.
Total	l:		122.802	1021.834	100.00	100.00	

Chromeleon (c) Dionex Version 7.2.10.23925 Report Template/Integration

Sinomenine Hydrochloride



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.

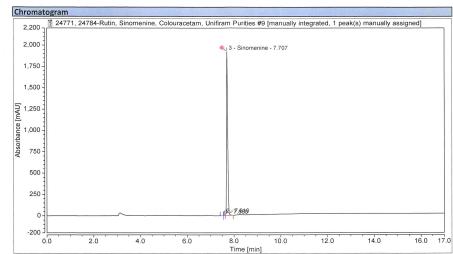
Neil E. Spingarn, Ph.D.

President

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

Page 1 of 1

	Chromatogram a	nd Results		
Injection Details	#65, 13 15.11 [155/9] 2 [155/3/003459] 5 [155.21/23/9] [11.116			
Injection Name:	Sinomenine; 210216	Run Time (min):	20.00	
Vial Number:	GA5	Injection Volume:	10.00	
Injection Type:	Unknown	Channel:	EXT202NM	
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:	24/Feb/21 19:03	Sample Weight:	1.0000	



Integ	ration Results						
No.	Peak Name	Retention Time	Area	Height	Relative Area	Relative Height	Amount
		min	mAU*min	mAU	%	%	
1		7.560	0.029	0.000	0.03	0.00	n.a.
2		7.610	0.214	7.119	0.20	0.37	n.a.
3	Sinomenine	7.707	106.693	1919.466	99.77	99.63	n.a.
Total:			106.937	1926.585	100.00	100.00	

Report Template/Integration Chromeleon (c) Dionex
Version 7.2.10.23925

Arctic Root Extract (Rhodiola rosea)

CERTIFICATE OF ANALYSIS



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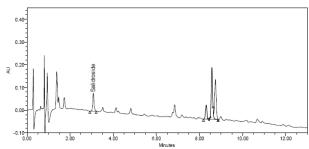
Report Issued To: Synaptent

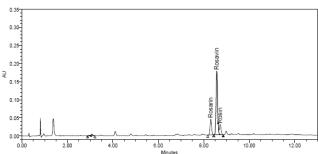
47 W. Polk St.; 100-241 Chicago IL 60605-2000 Sample Name: Rhodiola rosea

Description: Powdered extract; Fine dark tan powder

Lot #: 160623 AL #: 22174XOI_1 Analysis ID: 179491 Received: 06/23/22

Determination of Rosavins Content by HPLC





Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
3.1	Salidroside	3.617	3.540	3.578	≥2%	Pass
8.3	Rosarin	0.952	0.946	0.949	N/A	N/A
8.6	Rosavin	3.685	3.695	3.690	N/A	N/A
8.7	Rosin	0.455	0.456	0.455	N/A	N/A
	Total Rosavins	5.092	5.097	5.094	≥5%	Pass



Digitally signed by Celline Deneuve DN: cn=Celline Deneuve, o, ou, email=celline@alkemist.com, c=US Date: 2022 07 06 11:37:25-0770

Analysis Date : 07/01/22 Rev 1: CD 07/05/22 Analyzed By: A Maimone

Authorized By: Celine Deneuve, Analytical Chemistry Supervisor -668-9972 | www.alkemist.com

ALKEMIST LABS

12661 HOOVER STREET GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

Chromatographic Conditions:

Method: ATM-815-0238 Column: AP204 Kinetex 5 μm C18 100A (100 x 4.6 mm)

Temperature: 25°C
Flow Rate: 1.5 mL/min

Injection Volume: 3 µL UV Detection: 205 nm, 254 nm

Mobile Phase: 0.1% Trifluoroacetic Acid

Acetonitrile

HPLC Instrument: Alliance_5

Sample Preparation:

Mixed sample well. Weighed about 115 mg into a 25 mL flask and diluted to volume with 50% acetonitrile. Vortexed for 30 seconds and sonicated for 15 minutes at room temperature. Centrifuged 10 minutes. Filtered through a 0.2 µm Nylon membrane filter into an HPLC vial for analysis.

Report Summary:

Conclusion: This " Rhodiola rosea " test sample contains 5% total rosavins and 4% salidroside on the as is basis.

OOS Reference: N/A
Notebook Reference: 18122 Rosavins

Rev 1: Revised results for salidroside and total rosavins from "N/A" to "Pass".

Analysis Date : 07/01/22 Rev 1: CD 07/05/22 Analyzed By: A Maimone

Authorized By: Celine Deneuve, Analytical Chemistry Supervisor

Gotu Kola Aerial Parts Extract

CERTIFICATE OF ANALYSIS



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Report Issued To: Synaptent

47 W. Polk St.; 100-241

Chicago IL 60605-2000

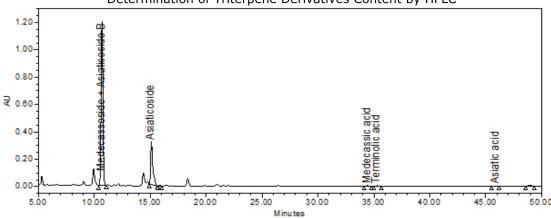
USA

Sample Name: Gotu Kola Extract

Description: Liquid extract; Beige Liquid

Lot #: 20210615 AL #: 21168CLT_1 Analysis ID: 157973 Received: 06/17/21

Determination of Triterpene Derivatives Content by HPLC



Ret. Time	Compound Name	Prep 1 As Is (%)	Prep 2 As Is (%)	Average As Is (%)	Average Dry Basis (%)	Specification	Result
10.9	Madecassoside + Asiaticoside B	55.815	55.418	55.616	55.616	N/A	N/A
15.2	Asiaticoside	17.319	17.189	17.254	17.254	N/A	Pass
34.8	Medecassic acid	0.104	0.109	0.106	0.106	N/A	N/A
35.7	Terminolic Acid	0.091	0.090	0.091	0.091	N/A	N/A
45.8	Asiatic Acid	0.043	0.040	0.041	0.041	N/A	N/A
	Total	73.371	72.846	73.109	73.109	>= 70% Average Dry Basis	Pass

Chromatographic Conditions:

Method: USP 43 - Powdered Centella asiatica Extract- Triterpene Derivatives

Column: AP138 Zorbax SB C8 5µm (4.6 x 250 mm)

Temperature: 25°C
Flow Rate: 1 mL/min
Injection Volume: 10 µL
UV Detection: 200 nm

Mobile Phase: 0.3% Phosphoric acid in Water

Acetonitrile
HPLC Instrument: Alliance_3

Sample Preparation:

Transferred approximately 70 mg of sample into a 10 mL volumetric flask. Filled to volume with methanol and vortexed 30 seconds. Sonicated for 30 minutes at room temperature. Let cool and filtered through 0.45 μ m PTFE syringe filter into an HPLC vial, discarding the first few milliliters of filtrate.

Report Summary:

Conclusion: This "Gotu Kola Extract" test sample contains an average of 73% total triterpene derivatives as

Madecassoside & Asiaticoside B, Asiaticoside, Madecassic & Terminolic Acids and Asiatic Acid on the

dry basis.

OOS Reference: N/A Loss on Drying: 0.00%

Empower Reference: 17421 Triterpenes

Celine Deneuve Senior Analytical Chemist

Digitally signed by Colin Gray DN: cn=Colin Gray, email=colin@alkemist.com, c=US Date: 2021.06.24 17:00:30

Analysis Date: 06/24/21 Analyzed By: C Deneuve Authorized By: Colin Gray,
Lead Analytical Chemist

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Ginseng Root Extract Blend



15 May 2022

Job Number:	25880
PO Number:	verbal

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

REPORT OF ANALYSIS

One small jar labeled "Ginseng Mix #204735" was received on 15 April 2022. The contents of the jar were analyzed for total gensenosides using high pressure liquid chromatography (HPLC). The results are summarized in the table below.

Component	Concentration (%, w/w)
Ginsenoside Rb1	7.30
Ginsenoside Rb2	1.95
Ginsenoside Rc	1.10
Ginsenoside Rd	5.90
Ginsenoside Re	8.32
Ginsenoside Rf	< 0.0005
Ginsenoside Rg1	9.65
Ginsenoside Rg1	1.69
Total Gensenosides	35.9

Neil E. Spingarn, Ph.D.

Lab Director

Peony Root Extract



5 May 2022

Job Number:	25916a
PO Number:	verbal

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

REPORT OF ANALYSIS

One jar labeled "Peony Root Extract #20210602" was received on 29 April 2022. The contents of the jar were analyzed for two specific components using high pressure liquid chromatography (HPLC). The results are summarized in the table below.

Component	Specification (NLT %, w/w)	Measured (%, w/w)
albiflorin		22.2
peoniflorin		48.7
total	50	70.9

Neil E. Spingarn, Ph.D.

Lab Director

Barley Malt Extract (Hordenine HCI)



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	Barley Malt Extract	Client Lot Number	20170415
Report Date	12/30/19	Laboratory Number	13516

Test	Method	Result
Hordenine HCL	HPLC	100.2%
Lead	ICP-MS USP <730>	0.039 ppm
Arsenic	ICP-MS USP <730>	<0.0001 ppm
Cadmium	ICP-MS USP <730>	0.006 ppm
Mercury	ICP-MS USP <730>	0.001 ppm
Total Aerobic count	Biolumix	<100 cfu/g
Yeast and Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	<10 cfu/g
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Negative

Collin Thomas MSC

Laboratory Manager