



thrivous.com – support@thrivous.com – +1 801 658 9661 – PO Box 4078 #73216, SLC UT 84110 USA

## CERTIFICATE OF ANALYSIS AND QUALITY

<b>Product</b>	Surge Acute Nootropic
<b>SKU</b>	SURGE
<b>Barcode</b>	866033000222
<b>Formula</b>	3
<b>Date</b>	14 December 2021

### Label

**Warning:** Consult a physician before and during use of all dietary supplements.

**Use:** Take 1 capsule up to 4 times in a day. Do not take every day. Do not take before sleep.

**Storage:** Keep cool and dry, away from children.

\* THIS STATEMENT HAS NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THIS PRODUCT IS NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.



**SURGE**  
**ACUTE NOOTROPIC**

Formula 3

Enhances Energy and Focus,  
and Supports Productivity\*

**Dietary Supplement**  
**60 CAPSULES**

### Supplement Facts

Serving Size 1 Capsule  
Servings Per Container 60

Amount Per Serving	% Daily Value
L Theanine 200 mg	†
Panax Ginseng Root Extract 100 mg (7% Ginsenoside)	†
Caffeine Anhydrous 100 mg	†
† Daily Value Not Established	

Other Ingredients: Cellulose, L Leucine, MCT Oil, Carmine, Riboflavin

THRIVOUS, PO BOX 4078 #73216, SLC UT 84110 USA

<b>Certifications</b>
Letter of Guarantee
Good Manufacturing Practice (GMP) Certificate from Manufacturing
National Sanitation Foundation (NSF) Certificate from Manufacturing
ISO/IEC 17025 Certificate from Third-Party Testing
Certificate of Analysis from Third-Party Testing
Capsule Certificate of Analysis from Supplier
Capsule Certificate of Analysis from Third-Party Testing
Excipient L Leucine Certificate of Analysis from Supplier
Excipient L Leucine Certificate of Analysis from Third-Party Testing
Excipient MCT Oil Certificate of Analysis from Supplier
Excipient MCT Oil Certificate of Analysis from Third-Party Testing
Caffeine Anhydrous Certificate of Analysis from Supplier
Caffeine Anhydrous Certificate of Analysis from Third-Party Testing
L Theanine Certificate of Analysis from Supplier
L Theanine Certificate of Analysis from Third-Party Testing
Panax Ginseng Certificate of Analysis from Supplier
Panax Ginseng Certificate of Analysis from Third-Party Testing



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14 December 2021

RE: Letter of Guarantee for Thrivous Surge Acute Nootropic

To whom it may concern,

The undersigned, Lincoln Cannon LLC DBA Thrivous (“Thrivous”), hereby guarantees as follows regarding Surge Acute Nootropic (“Product”):

1. Product is manufactured according to current Good Manufacturing Practices as indicated in 21 CFR Part 111.
2. Product is tested by third party laboratories according to current best practices as indicated in ISO/IEC 17025.
3. All ingredients utilized for Product are lawful and safe as defined in section 402(f) of the FD&C Act.
4. To the best of Thrivous’ knowledge, concentrations of active ingredients, as stated on the label of Product, are safe for consumption.

Thrivous further guarantees that any agent signing on behalf of Thrivous has the authority to bind and obligate Thrivous.

Lincoln Cannon LLC DBA Thrivous

Lincoln Cannon  
CEO at Thrivous



State of Utah  
GARY R HERBERT  
Governor  
SPENCER J COX  
Lieutenant Governor

## Department of Agriculture and Food

LuAnn Adams  
Commissioner  
Scott Ericson  
Deputy Commissioner  
Travis Waller  
Director, Regulatory Services

Certificate No.: REG-2019-05999

### GOOD MANUFACTURING PRACTICE CERTIFICATE

We hereby certify that ORIGIN NUTRACEUTICAL, located at, 1077 S 1675 W, OREM, UT 84059 is currently under inspection as a manufacturer of health food or dietary supplements. ORIGIN NUTRACEUTICAL has all the facilities to comply with the GOOD MANUFACTURING PRACTICE for food and dietary supplements (Code of Good Manufacturing Practice for food). We also certify that ORIGIN NUTRACEUTICAL, is an inspected facility and the manufacturing plant in which their products are produced are subject to inspections at suitable intervals. Inspection evaluates and assures compliance with the Utah Wholesome Food Act and Utah Food Protection Rule, which identifies the standard for proper facility construction, good manufacturing practices for food and dietary supplements (GMP), and fulfills requirements of those applicable laws and rules in the State of Utah.

UTAH DEPARTMENT OF AGRICULTURE AND FOOD

*Travis Waller*

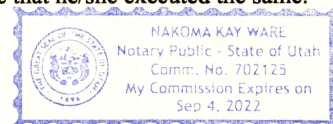
Travis Waller, Director, Division of Regulatory Services

State of Utah, County of Salt Lake.

On this date MAR 01 2019 before me, the notary, personally appeared Travis Waller, proved on the basis of satisfactory evidence to be person, whose name is subscribed to this document, and acknowledge that he/she executed the same.

*Nakoma Kay Ware*

Notary Public







## NSF INTERNATIONAL

789 N. Dixboro Road, Ann Arbor, Michigan 48105 USA  
+1 800 673 6275



**GMP REGISTERED**  
Dietary Supplements

NSF International has assessed and confirmed compliance of

### **Origin Nutraceutical, Inc.**

Facility: 151 East 3450 North, Spanish Fork, UT, 84660, United States

### **to NSF GMP Registration Program Requirements of NSF/ANSI 173, Section 8**

which includes FSMA and cGMP (21 CFR 111), (21 CFR 117)

Print Date: February 22, 2021  
Certificate Number: C0570236-DS-1  
Initial Certification: February 22, 2021  
Expiration Date: February 22, 2022

A handwritten signature in black ink, appearing to read "David Trosin".

**David Trosin**  
Managing Director  
Health Sciences Certification



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

### ***Contract Testing Laboratories of America***

***151 E. 3450 N., Spanish Fork, UT 84660***

*(Hereinafter called the Organization) and hereby declares that Organization is accredited  
in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the  
operation of a laboratory quality management system  
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Biological Testing***  
***(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

*Initial Accreditation Date:*

March 31, 2021

*Issue Date:*

March 31, 2021

*Expiration Date:*

June 30, 2023

*Accreditation No.:*

102267

*Certificate No.:*

L21-216

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a  
continuous accreditation cycle. The validity of this certificate should be  
confirmed through the PJLA website: [www.pjilabs.com](http://www.pjilabs.com)*



## Certificate of Accreditation: Supplement

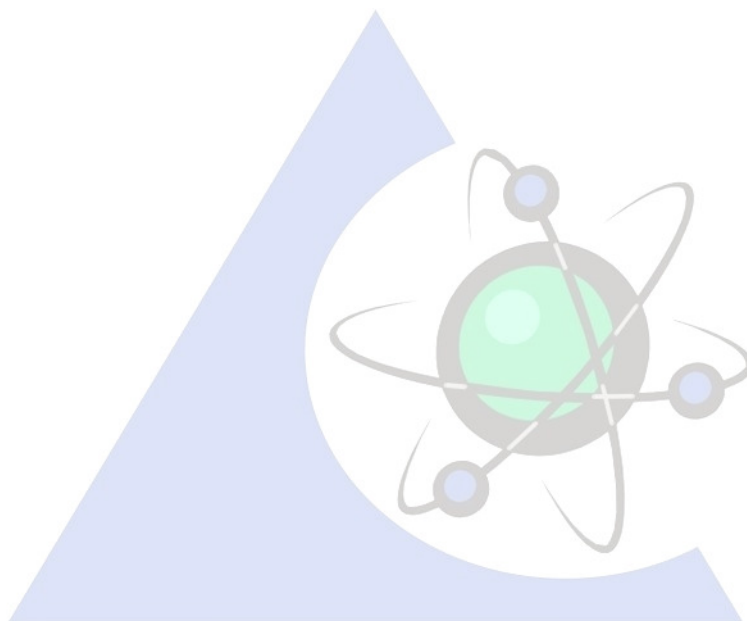
### Contract Testing Laboratories of America

151 E. 3450 N., Spanish Fork, UT 84660  
Contact Name: Rachael Cummings Phone: 385-477-4999

*Accreditation is granted to the facility to perform the following testing:*

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Biological <sup>F</sup>	Food and Nutritional Supplements	Rapid E. Coli and Coliforms	AOAC OMA 2018.13	Petri Film Incubators Positive/Negative <100 cfu/g or <10 cfu/g To TNTC

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.



## Certificate of Analysis

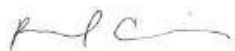
<b>CTLA ID</b>	42057	<b>Sample Name</b>	50145 Surge
<b>Customer</b>	Origin Nutraceutical	<b>Lot Number</b>	2131602
<b>Date Received</b>	11/17/2021	<b>Date Complete</b>	11/23/2021

ANALYSIS	SPECIFICATION	RESULT	METHOD	MDL	UNITS
<b>Complete Rapid Micro</b>					
Total Plate Count	Report	200	USP<2021>	100	cfu/g
Total Coliforms	Report	<10	BAM CH.4	10	cfu/g
<i>E. coli</i>	Report	Negative	USP<2022>		
<i>Salmonella</i>	Report	Negative	USP<2022>		
<i>S. aureus</i>	Report	Negative	USP<2022>		
Rapid Yeast & Mold	Report	<10	AOAC 2014.05	10	cfu/g
<b>Heavy Metal</b>					
Arsenic	Report	0.005	USP <2232>	0.001	ppm
Cadmium	Report	0.004	USP <2232>	0.001	ppm
Mercury	Report	0.001	USP <2232>	0.001	ppm
Lead	Report	0.034	USP <2232>	0.001	ppm
L-Theanine		200.00	By Input		mg/serving
Panax Ginseng Root Extract (7% Ginsenoside)		100.00	By Input		mg/serving
Caffeine Anhydrous		100.00	By Input		mg/serving

**COA Note:**

Serving = 1 capsule

**Approved By:**



**Date:**

12/6/2021





Specifications provided by the Customer. Results with an asterisk (\*) denote Specification should be reviewed by the Customer. This Certificate of Analysis represents the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. The results are provided for the benefit of the Customer. Results using the "by input" method are calculated using information provided by the Customer. MDL = Method Detection Limit

151 E 3450 N, Ste 201  
Spanish Fork, UT 84660  
(385) 477-4999



ISO 17025 Accreditation No: 102267



**EMBOCAPS®**  
by SUHEUNG



ORIGINAL

SUHEUNG Co., Ltd.

Plant : 61, Osongsaengmyeong-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, 28161, Korea.

Office : Suheung Bldg, 40, Janghan-ro, Dongdaemun-gu, Seoul, 02643, Korea.

Tel : +82-43-249-4200(Plant)/+82-2-2210-8173~8(Office) E-mail : [inquires@suheung.com](mailto:inquires@suheung.com) <http://www.suheung.com>

\* ORDER NO. HC4820

Date : Jul. 05, 2019  
Ref. : 190705 - 03


## CERTIFICATE OF ANALYSIS

Mfg.Date : Jun. 18, 2019

Exp.Date : Jun. 17, 2024

Prepared for : SUHEUNG-AMERICA U.S.A  
Product Description : Empty Hard Capsules From Hypromellose (HPMC)  
Product Size : #0  
Product Type : EMBO CAPS® VG<sup>NS</sup> "Kosher and Halal Certified"  
Color (CAP/BODY) : STD. ORANGE TR. / STD. ORANGE TR.  
Lot Number : VOA23A23 - 93802  
Quantity : 10,000,000 PCS ( 100 Cartons ) Carton No. : 1 - 100

ITEM	STANDARD			RESULTS
Length (mm)	Cap	10.3 - 11.1	In-house Spec	10.8
	Body	18.0 - 18.8	In-house Spec	18.5
Weight (mg)		84.6 - 105.4	In-house Spec	93.2
Disintegration (minute)		Within 20	USP	Passed
Loss on Drying (%)		3.0 - 7.0	USP	4.9
Residue on Ignition (%)		Less than 3	USP	Passed
Arsenic (ppm)		Less than 3	USP	Passed
Heavy Metals (ppm)		Less than 10	USP	Passed
TAMC (CFU/g)		Less than 500	USP	Passed
TYMC (CFU/g)		Less than 100	USP	<10
E.Coli (-/10g)		Negative	USP	Passed
Salmonella (-/10g)		Negative	USP	Passed
Staphylococcus aureus (-/10g)		Negative	USP	Passed
Pseudomonas aeruginosa (-/10g)		Negative	USP	Passed

  
Quality Assurance Manager

# Certificate of Analysis

## Sample Information

CTLA ID: 39612  
Date Received: 9/29/2021  
Sample Name: 10786 CPS Capsule, HPMC, 0, orange  
Lot Number: 38760  
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	>95	%
Total Plate Count	USP <2021>	100	Report	600	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>FTIR Spectra</b>	FTIR		Report	Attached	

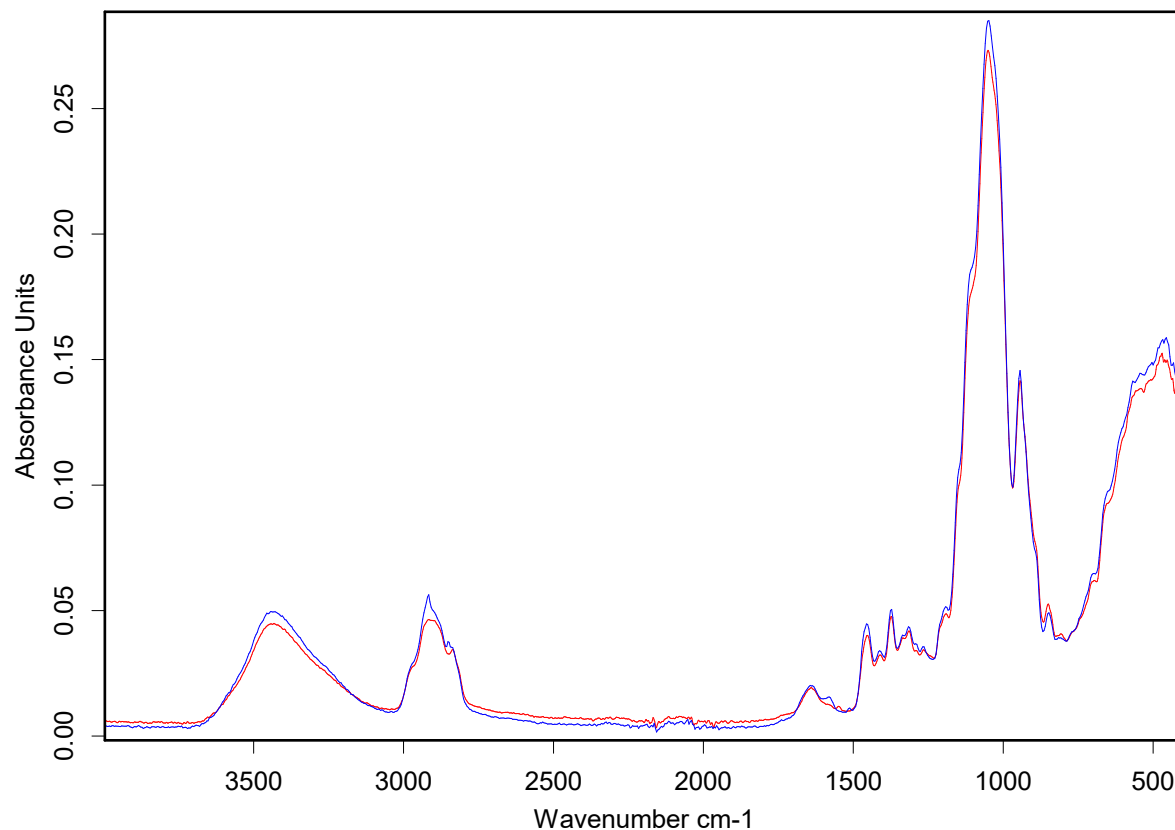
10/1/2021

DATE



Quality Manager

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Product Number	10138 Capsule 4 HPMC 60746 Standard 2
Entry No.	151
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	975	10138 Capsule 4 HPMC 60746 Standard 2			

Color	File	Path	Spectrum Type
	39612-ON 10786 CPS Capsule HPMC, 0, Orange (38760).0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum





**Shuguang**  
Biochem

张家港市曙光生物制品厂

ZHANGJIAGANG SHUGUANG BIOCHEMICAL FACTORY

Address: JinFeng Town, ZhangJiaGang City, JiangSu Province, China

Zip Code: 215625

Tel: 0086 512 58551123/58950567

Fax: 0086 512 58567123

Website: <http://www.sgbiochem.com>

Email: [shuguangbiochem@126.com](mailto:shuguangbiochem@126.com) or [sales@sgbiochem.com](mailto:sales@sgbiochem.com)

## 质检报告单

## CERTIFICATE OF ANALYSIS

品名 Product name:	L-亮氨酸 L-Leucine		
批号 Batch No.:	CP0220050601	数量 Quantity:	2000KGS
生产日期 Manufacture date:	2020.05.06	有效期 Expiry date:	2022.05.05

标准 Reference standard:	USP30	
项目(ITEM)	标准 (STANDARD)	结论(RESULT)
鉴别 Identification:	红外吸收光谱法 Infrared Absorption	符合 Qualified
比旋光度 Specific rotation	+14.9° to +17.3°	+16.02°
pH	Between 5.5 and 7.0	6.3
干燥失重 Loss on drying	not more than (不超过)0.2% *	0.12%
炽灼残渣 Residue on ignition	not more than (不超过)0.4%	0.05%
氯化物 Chloride	not more than (不超过)0.05%	<0.02%
硫酸盐 Sulfate	not more than (不超过)0.03%	<0.02%
铁盐 Iron	not more than (不超过)0.003%	<0.001%
重金属 Heavy metals	not more than (不超过)0.0015%	<0.001%
纯度 Chromatographic purity	按 USP30(薄层层析法) As per USP30 (By TLC)	符合 Qualified
单一杂质 Individual impurity	≤0.5%	<0.5%
总杂质 Total impurity	≤2.0%	<2.0%
有机挥发杂质 Organic volatile impurities	符合要求 Meets the requirements	符合 Qualified
含量 Assay	98.5 to 101.5%	99.58%
结论 Conclusion:	符合 USP30 标准。 Material conforms to the USP30 standard.	
分析日期 Analysis date:	2020.05.06	
化验 Analyst:	陈卫红	审核 Verifier: 袁亚红



# Certificate of Analysis

## Sample Information

CTLA ID: 31701  
Date Received: 5/10/2021  
Sample Name: 10164 L-Leucine  
Lot Number: 35540  
Customer: Origin Nutraceutical

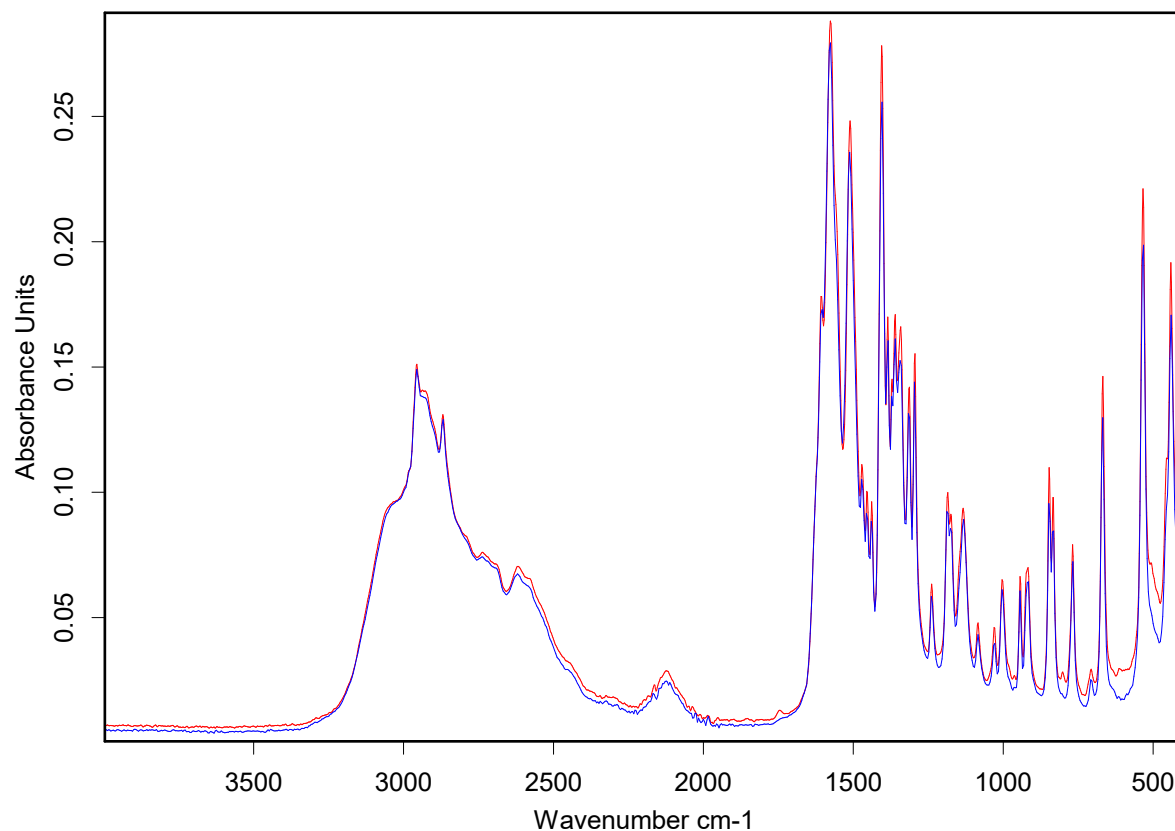
Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	>95	%
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>FTIR Spectra</b>	FTIR		Report	Attached	

10/4/2021  
DATE



Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.



Product Number	10478 L-Leucine 7516 Standard 3
Entry No.	1128
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	968	10478 L-Leucine 7516 Standard 3			

Color	File	Path	Spectrum Type
	31701-ON 10164 DRM Leucine (35540).0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



## Certificate of Analysis

Material: 26154  
MCT Oil

Country of Origin: Indonesia

Batch: 016228818

Mfg. Date: 10/15/2018

Retest Date: 10/15/2020

Characteristic	Units	Value	Specifications	Test Method
Acid Value	mg koh/g	<0.01	Max 0.1	AOCS Cd 3d-63
Saponification Value	mg koh/g	336.2	Min. 325 Max. 345	AOCS Cd 3-25
Iodine Value	gl <sub>2</sub> /100g	0.3	Max. 0.5	AOCS CD 1d-92
Hydroxyl Value	mg KOH/g	2.8	Max. 5	AOCS Cd 13-60
Peroxide Value	meq/kg	0.3	Max. 1	AOCS Cd 8b-90
Total Ash	%	0.03	Max. 0.1	ISO 2098
C8 Caprylic Acid	%	55.41	Min. 55 Max. 65	AOCS Ce 1a-13
C10 Capric Acid	%	44.41	Min. 35 Max. 45	AOCS Ce 1a-13
Heavy Metals	ppm	<10	Max. 10	USP
Chromium	ppm	ND	Max. 0.05	AOAC 985.01
Copper	ppm	ND	Max. 0.1	AOAC 985.01
Lead	ppm	ND	Max. 0.1	AOAC 985.01
Nickel	ppm	ND	Max. 0.1	AOAC 985.01
Tin	ppm	ND	Max. 0.1	AOAC 985.01
Aerobic Plate Count*	cfu/g	ND/10	Max. 5,000	AOAC 986.32
E. Coli*	cfu/g	ND/10	Max. 10	AOAC 990.11
Yeast & Mold*	cfu/g	ND/10	Max. 100	AOAC 995.21
Salmonella*	cfu/g	Negative/10	Negative	AOAC 2013.14

\*These parameters are tested on a random batch annually. COA will be updated with the most recent results.

Tested and approved by Third Party Quality Assurance Lab

(The results are in accordance with our specification. They do not guarantee the suitability of the product for its intended use.)

Verification of Lab Results to Technical Data Specifications

CONNOILS LLC Representative

Connoils LLC, PO Box 357, Big Bend, WI 53103

Warehouse Location: W241 S4145 Pine Hollow Ct. Waukesha, WI 53189

P: 262-662-5533, F: 262-662-2828



# Certificate of Analysis

## Sample Information

CTLA ID: 38302  
Date Received: 8/31/2021  
Sample Name: 10842 MCT Oil 100%  
Lot Number: 18053  
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	>95	%
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>FTIR Spectra</b>	FTIR		Report	Attached	

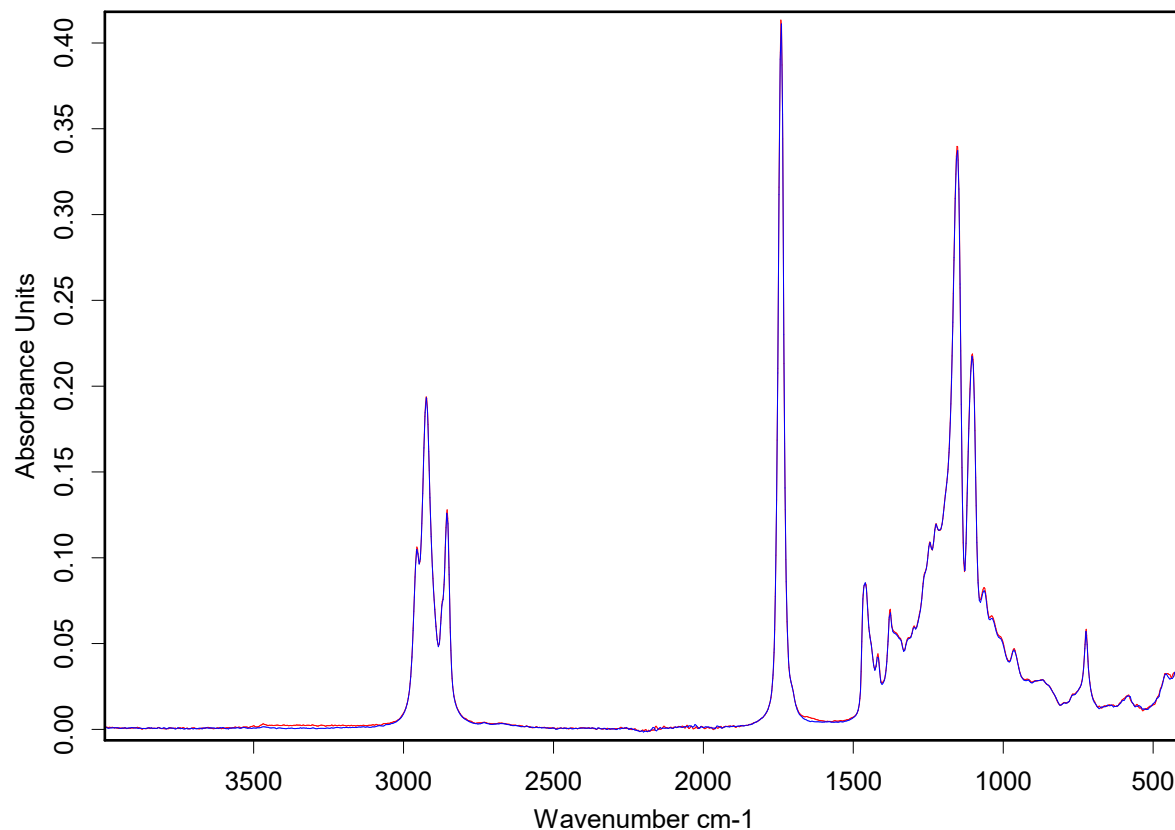
9/3/2021

DATE



Quality Manager

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Product Number	ON 10842 LIQ MCT Oil 100% 18053 Standard
Entry No.	1721
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	991	ON 10842 LIQ MCT Oil 100% 18053 Standard 1			

Color	File	Path	Spectrum Type
	39623-ON 10842 MCT Oil 100%.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



CSPC INNOVATION PHARMACEUTICAL CO., LTD.

CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114 (01)

Product: <u>Caffeine (Anhydrous)</u>	Batch No.: <u>1032012482</u>	Quantity: <u>1000 kg</u>	
Analysis Standard: <u>USP42</u>	Analysis Date: <u>2020.12.16</u>	Report Date: <u>2020.12.23</u>	
Manu. Date: <u>2020.12.13</u>	Retest Date: <u>2024.12.12</u>		
Analysis Contents	Analysis Standard	Method	Analysis Results
【Characters】			
Appearance	White crystalline powder or white glistening needles		White crystalline powder
【Identification】			
A. Infrared absorption	Conforms to the caffeine Reference Spectrum	(197M)	Pass
B. The retention time of caffeine peak	Corresponds to the Standard preparation obtained in the Assay		Pass
【Impurities】			
Organic impurities			
-Individual impurities	≤0.1%		<0.1%
-Total impurities	≤0.1%		<0.1%
Residue on ignition	≤0.1%		0.04%
【Assay】	98.5~101.0%	HPLC	99.8%
【Specific tests】			
Water determination	≤0.5%	Method III (921)	0.05%
Conclusion: The above product conforms to USP42 requirement on Caffeine			

Chief of Quality Analysis Dept: 周云

Rechecker: 郭佳佳

Reporter: 彭年

Address: No. 62 Zhangju Road, Luancheng County, Shi Jiazhuang City, Hebei Province, China

Tel: +86 311 85408723

+86 311 85408725

Fax: +86 311 85409463

# Certificate of Analysis

## Sample Information

CTLA ID: 39624  
Date Received: 9/29/2021  
Sample Name: 10109 Caffeine Anhydrous  
Lot Number: 38011  
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	>95	%
Total Plate Count	USP <2021>	100	Report	300	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>Caffeine</b>	HPLC		≥100	106	%
<b>FTIR Spectra</b>	FTIR		Report	Attached	

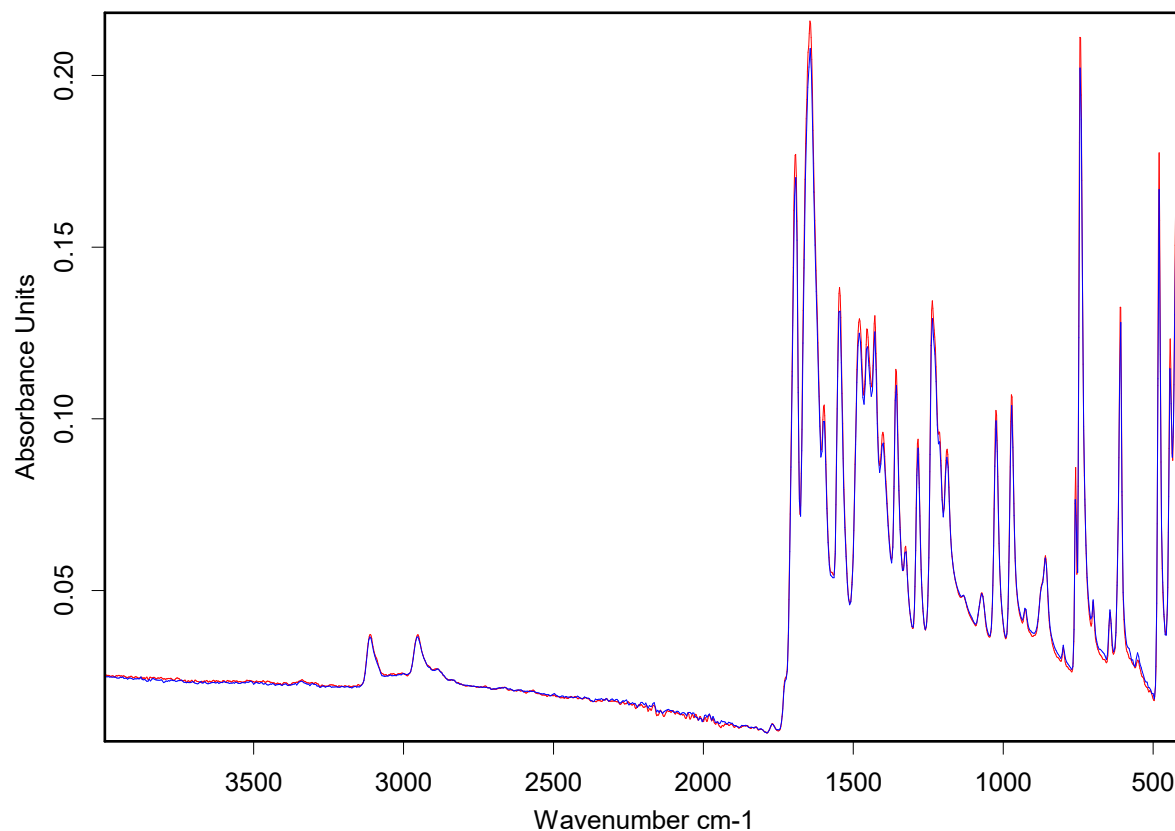
10/8/2021  
DATE



Quality Manager

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Product Number	-ON 10109 DRM Caffeine Anhydrous ( Kasher
Entry No.	215
Library name	DESERT STREAM.S01
Library description	Desert Stream Materials Only
Copyright	Desert Stream Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	984	-ON 10109 DRM Caffeine Anhydrous ( Kasher) (30235) Standard 3			

Color	File	Path	Spectrum Type
	39624-ON 10109 Caffeine Anhyrous 38011.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

10310

# 浙江衢州卓尔化学有限公司

ZHE JIANG QUZHOU JOY CHEMICAL CO., LTD.

No.35 Nianhua Road, High-tech Industrial Zone, Quzhou, Zhejiang, China.

Postcodes: 324000 Tel: +86-0570-3881022 Fax: +86-0570-3881021

## analytical certification of product

Product Name: L- theanine

检测专用章

CAS#: 3081-61-6

Molecular Formula: C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 174.2

Batch No: 20201005

Manufacturing date: OCT.05, 2020

Expiring date: OCT.04, 2022

Specification	Standard (JP2000)	Test Method	Results
Appearance	White crystalline powder	Seeing	White crystalline powder
Assay	98.0-102.0%	HPLC	99.10%
Specific rotation(α) <sub>D20</sub> (C=1, H <sub>2</sub> O)	+7.7 to +8.5 Degree	CHP2015	+8.01 Degree
Solubility (1.0g/20ml H <sub>2</sub> O)	Clear Colorless	Seeing	Clear Colorless
Chloride(Cl)	≤ 0.02%	CHP2015	<0.02%
Loss on drying	≤ 0.5%	CHP2015	0.27%
Residue on ignition	≤ 0.2%	CHP2015	0.04%
PH	5.0-6.0	CHP2015	5.11
Melting point	202-215℃	CHP2015	203-203.5℃
Heavy metals(as Pb)	≤ 10 ppm	CHP2015	< 10 ppm
Arsenic(as As)	≤ 1 ppm	CHP2015	< 1 ppm
Total Plate Count	< 1000cfu/g	CHP2015	conform
Mold And Yeasts	< 100cfu/g		conform
Salmonella	absent		absent
E.Coli	absent		absent

**Conclusion: The Product Conforms To JP2000 Standard**

Head of quality control dept :

李丽群

Analyst:

胡鸣翔

# Certificate of Analysis

## Sample Information

CTLA ID: 31177  
Date Received: 4/30/2021  
Sample Name: 10310 L-Theanine  
Lot Number: 34824  
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	>95	%
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>FTIR Spectra</b>	FTIR		Report	Attached	

5/4/2021

DATE



Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

# Certificate of Analysis

## Sample Information

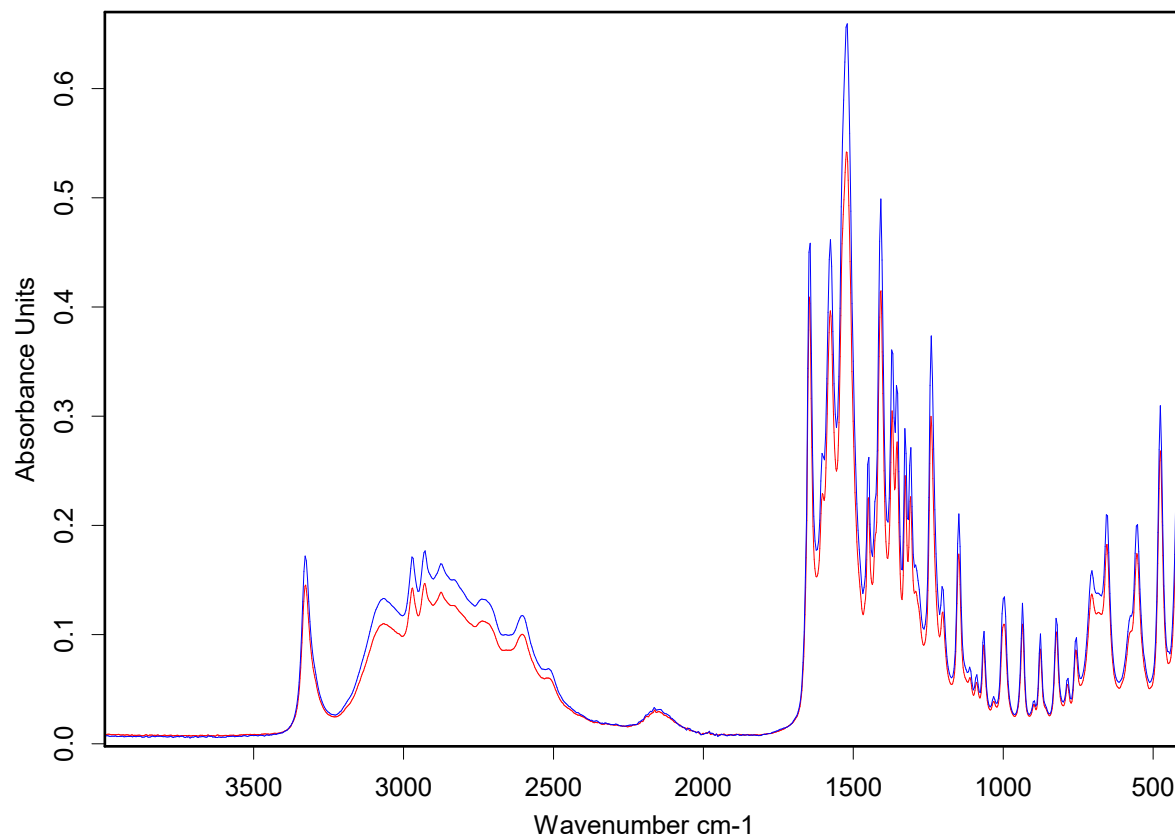
CTLA ID: 30339  
Date Received: 4/16/2021  
Sample Name: 10310 L-Theanine  
Lot Number: 34824  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	>95	%
L-Theanine	HPLC	0.001 98–102	99.05	%

4/21/2021  
DATE

  
Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.



Product Number	10310 L-Theanine 60756 Standard 2
Entry No.	291
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	978	10310 L-Theanine 60756 Standard 2			

Color	File	Path	Spectrum Type
	31177-ON 10310 L Theanine 34824.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum





**JIAHERB**  
essentials of nature

10139

## CERTIFICATE OF ANALYSIS

### Panax Ginseng Root Extract 7% Ginsenosides HPLC

#### GENERAL INFORMATION

Lot Number	CRSG-C-902633	Report Date	08/06/2019
Manufacture Date	07/30/2019	Expiration Date	07/29/2022
Botanical Species	<i>Panax ginseng</i>	Part Used	Root
Country of Origin	China	Carrier Used	Maltodextrin
Solvent Used	Water & Ethanol	Kosher    Halal	Yes    Yes

ITEM	SPECIFICATION	TEST RESULTS	METHOD
<b>PHYSICAL &amp; CHEMICAL</b>			
Identification	Corresponds to Reference Standard	Complies	HPTLC    USP<203>
Appearance	Light yellow brown fine powder	Complies	Organoleptic
Ginsenosides	NLT (%) 7.0	7.06	HPLC    USP<621>
Particle Size	NLT 95% through 80 mesh	Complies	USP<786>
Loss on Drying	NMT (%) 10.0	5.41	USP<731>
Bulk Density	Between (g/100ml) 30-70	53	USP<616>Method I

#### CONTAMINANTS

Lead (Pb)	NMT (ppm) 2.0	0.0149	ICP-MS    USP<730>
Arsenic (As)	NMT (ppm) 2.0	0.0097	ICP-MS    USP<730>
Cadmium (Cd)	NMT (ppm) 1.0	0.0114	ICP-MS    USP<730>
Mercury (Hg)	NMT (ppm) 1.0	0.0556	ICP-MS    USP<730>
Solvent Residue	Meets Requirements	Complies	GC    USP<467>

#### MICROBIOLOGICAL

Total Plate Count	NMT (cfu/g) 10,000	300	USP<2021>
Yeast & Mold	NMT (cfu/g) 1,000	20	USP<2021>
E.Coli.	Absent (cfu/10g)	Complies	USP<2022>
Salmonella	Absent (cfu/10g)	Complies	USP<2022>
Staphylococcus aureus	Absent (cfu/10g)	Complies	USP<2022>

#### PACKING & STORAGE

Packed in a polyethylene lined corrugated package.  
Store in a well-closed container away from moisture, light, and heat.  
Net Weight: 25 kg Pack Type: Drum

#### SHELF LIFE

36 months if under the conditions above and in its original packaging.

#### MANUFACTURER

Shaanxi Jiahe Pharmaceutical Co., Ltd

#### NOTE

*This is a natural product. variances may be found that are due to the growing and drying conditions, age, season, harvest time, geographic location, production process, etc.*

Completed by: Tao Wang

Signature: *Tao Wang*

Title: Quality Control Manager



## Certificate of Analysis

### Sample Information

CTLA ID: 11257  
Date Received: 10/1/2019  
Sample Name: 10139 Panax Ginseng Root Ext 7%  
Lot Number: 19282  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
<b>D, Rapid Complete Micro Combo</b>				
ID	FTIR	Report	>95	%
Total Plate Count	USP <2021>	100 Report	200	cfu/g
Total Coliforms	BAM CH.4	10 Report	<10	cfu/g
<i>Escherichia coli</i>	USP <2022>	Report	Negative	
<i>Salmonella</i>	USP <2022>	Report	Negative	
<i>Staphylococcus aureus</i>	USP <2022>	Report	Negative	
Rapid Yeast and Mold	AOAC 997.02	10 Report	<10	cfu/g

  
Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDI = Method Detection Limit

# Certificate of Analysis

## Sample Information

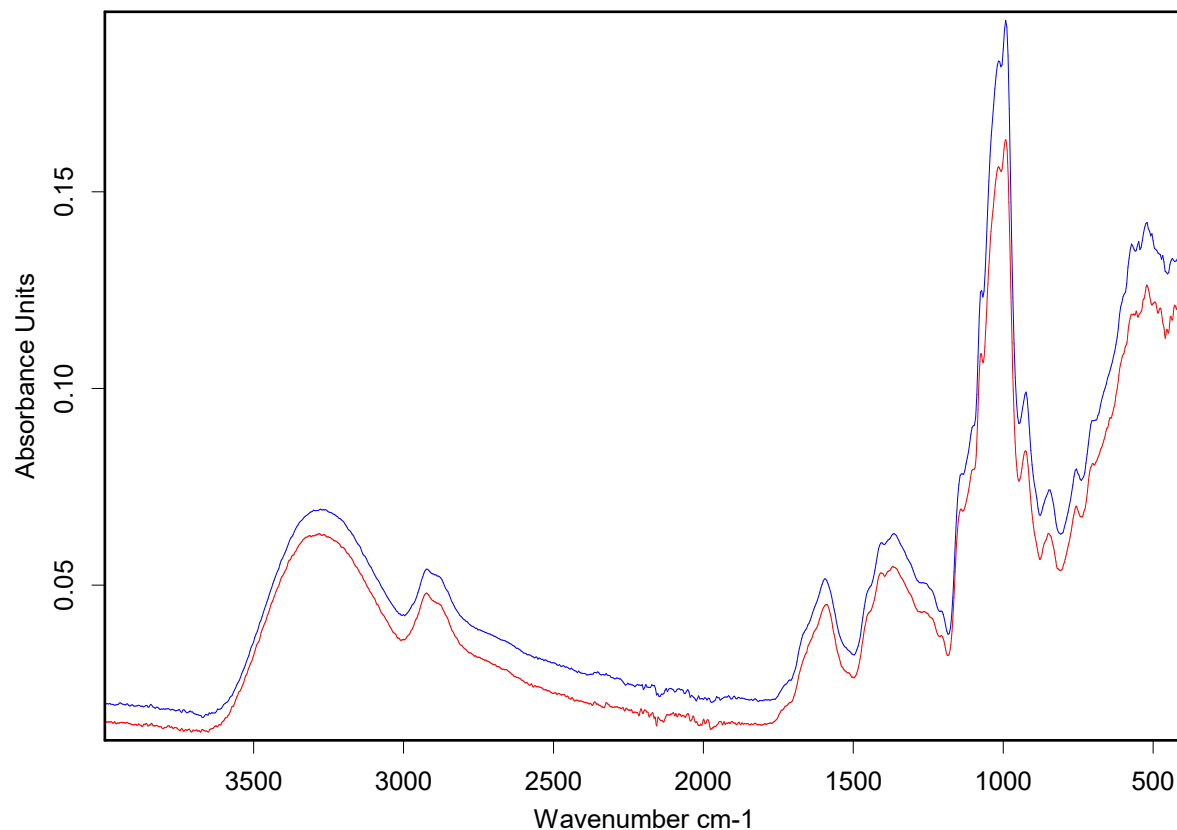
CTLA ID: 25531  
Date Received: 1/8/2021  
Sample Name: 10139 Panax Ginseng Root Ext 7%  
Lot Number: 19282  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Total Ginsenosides	HPLC	0.01 7	7.61	%

1/12/2021  
DATE

  
Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.



Product Number	ON 10139 DRM Panax Ginseng Root Ext 7% 1
Entry No.	1778
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	961	ON 10139 DRM Panax Ginseng Root Ext 7% 19282 Standard 3			

Color	File	Path	Spectrum Type
	39626-ON 1039 Panax Ginseng 19282.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

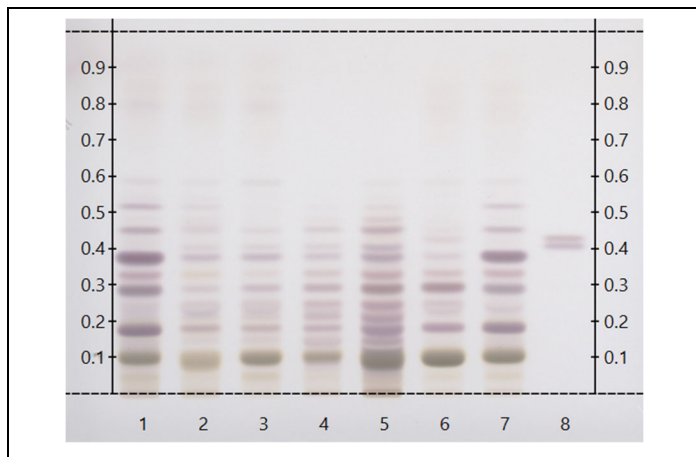
Certificate Issued To:  
**CTLA**  
**151 E 3450 N**  
**Spanish Fork, UT 84660-8507**  
**USA**



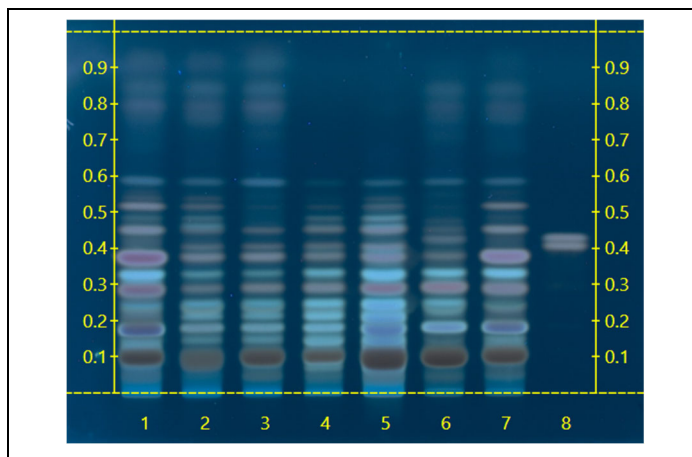
Work performed at:  
**Alkemist Labs**  
12661 Hoover Street  
Garden Grove, CA 92841  
714-754-HERB (4372)  
714-668-9972 (FAX)  
Sales@Alkemist.com  
www.Alkemist.com

**Certificate of Analysis: CTLA 40702 (40702)**  
**High Performance Thin-Layer Chromatography with Photo-Documentation**

1



2



Company Name: CTLA  
Title: CTLA 40702  
Plant Part: root  
Sample Received: 10/28/21  
Sample Packaging: Clear Whirl-Pak  
Form of Botanical: powder  
Appearance: Light brown powder  
Lot Number: (40702) → Lanes 4(0.5µl), 5(2µl)  
Sample: 21301NJZ\_1  
Latin Name: *Panax ginseng* C.A. Mey [Araliaceae]  
Reference Sample: Lane 1 (2µl) (EA08305SWH) *Panax ginseng* (herb (leaf, stem)); Lane 2 (2µl) (EA30009CRB), Lane 3 (2µl) (EA11910CS) *Panax ginseng* (root); Lane 6 (2µl) (LA14609PB) *Panax quinquefolius* (root); Lane 7 (2µl) (VE34214KAN1) *Panax pseudoginseng* Wall. Var. *notoginseng* (root); held at Alkemist Labs, Garden Grove, CA.  
Analyst: A. Ung, B. Vuong, H. Waldstreicher, H. Dinh, J. Mares, K. Montoya, K. Tran, N. Hoang, N. Afendikova, P. Hoang, S. Kabbaj, S. Sudberg 165520  
Sample Preparation: 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.  
Stationary Phase: Silica gel 60, HPTLC plates  
Mobile Phase: chloroform: ethyl acetate: methanol: water: ADC 50% RH [3/8/4.4/1.8/]  
Detection: (1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007)  
(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)  
Reference Standard: Lane 8 (1µl) Ginsenoside Rf (1117/0, XSYN), Methanol (18B066508, BDH), Ginsenoside F11 (00007270-210, CHR), Methanol (18C136521, BDH)  
Reference Source: BTM-715-0574  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample CTLA 40702 (40702). Lanes 1, 2, 3, 6, 7, are the reference samples used for comparison. This test sample, CTLA 40702 (40702) is consistent with the chromatographic profile of the reference samples of *Panax ginseng*, used above. **This test sample CTLA 40702 (40702) has characteristics of *Panax ginseng* root.**

**NOTE:** The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 11/02/21

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 40702. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2021 Alkemist Labs, Inc. All Rights Reserved