



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

## CERTIFICATE OF ANALYSIS AND QUALITY

Product	Alpha Neuroprotector
SKU	ALPHA
Barcode	866033000239
Formula	6
Date	6 April 2023

### Label

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

**Use:** Take 4 capsules up to 4 times daily with meals, for a total of 4 to 16 capsules daily.

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



SerinAid® is a registered trademark of Chemi Nutra.

\* 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.



## ALPHA NEUROPROTECTOR

Formula 6

Supports Healthy Brain and Nerve  
Function for Better Aging\*

Dietary Supplement  
120 CAPSULES

### Supplement Facts

Serving Size 4 Capsules  
Servings Per Container 30

Amount Per Serving	% Daily Value
Acetyl L Carnitine Hydrochloride 500 mg (ALCAR HCl)	†
L Alpha Glycerylphosphorylcholine 300 mg (Alpha GPC)	†
Sodium R Alpha Lipoic Acid 150 mg (Na R ALA)	†
Phosphatidylserine 100 mg (PS from SerinAid® 70P 143 mg)	†
Ginkgo Biloba Leaf Extract 90 mg (24% Flavone Glycoside, 6% Terpene Lactone)	†

† Daily Value Not Established

Other Ingredients: Apple Fiber, Cellulose, Stearic Acid, Sodium Stearyl Fumarate

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 Apple Fiber Certificate of Analysis from Supplier
Excipient Apple Fiber Certificate of Analysis from Third-Party Testing
Excipient Sodium Stearyl Fumarate Certificate of Analysis from Supplier
Excipient Sodium Stearyl Fumarate Certificate of Analysis from Third-Party Testing
Excipient Stearic Acid Certificate of Analysis from Supplier
Excipient Stearic Acid Certificate of Analysis from Third-Party Testing
Acetyl L Carnitine Certificate of Analysis from Supplier
Acetyl L Carnitine Certificate of Analysis from Third-Party Testing
Alpha GPC Certificate of Analysis from Supplier
Alpha GPC Certificate of Analysis from Third-Party Testing
Ginkgo Biloba Certificate of Analysis from Supplier
Ginkgo Biloba Certificate of Analysis from Third-Party Testing
Phosphatidylserine Certificate of Analysis from Supplier

Phosphatidylserine Certificate of Analysis from Third-Party Testing
R Alpha Lipoic Acid Certificate of Analysis from Supplier
R Alpha Lipoic Acid Certificate of Analysis from Third-Party Testing



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6 April 2023

RE: Letter of Guarantee for Thrivous Alpha Neuroprotector

To whom it may concern,

The undersigned, Lincoln Cannon LLC DBA Thrivous (“Thrivous”), hereby guarantees as follows regarding Alpha Neuroprotector (“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  
SPENCER J. COX  
Governor

DEIDRE M. HENDERSON  
Lieutenant Governor

## Department of Agriculture and Food

Craig W. Buttars  
Commissioner

Kelly Pehrson  
Deputy Commissioner

Travis Waller  
Director, Regulatory Services

Certificate No.: REG-2021-12022

### GOOD MANUFACTURING PRACTICE CERTIFICATE

We hereby certify that ORIGIN NUTRACEUTICAL INC, located at, 151 E 3450 N, SPANISH FORK, UT 84660 is currently under inspection as a manufacturer of health food or dietary supplements. ORIGIN NUTRACEUTICAL INC 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 INC, 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

Division of Regulatory Services

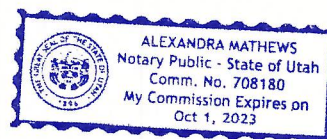
State of Utah, County of Salt Lake.

On this date DEC 20 2021 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.

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: May 23, 2022  
Certificate Number: C0570236-DS-2  
Initial Certification: February 22, 2021  
Expiration Date: May 23, 2023

**David Trosin**  
Senior Director Global Certification,  
Health Sciences



# 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:*

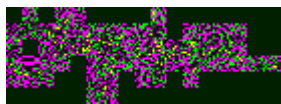
**ISO/IEC 17025:2017**

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

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

*Initial Accreditation Date:*

March 31, 2021

*Issue Date:*

March 31, 2021

*Expiration Date:*

June 30, 2023

*Accreditation No.:*

102267

*Certificate No.:*

L21-216

*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

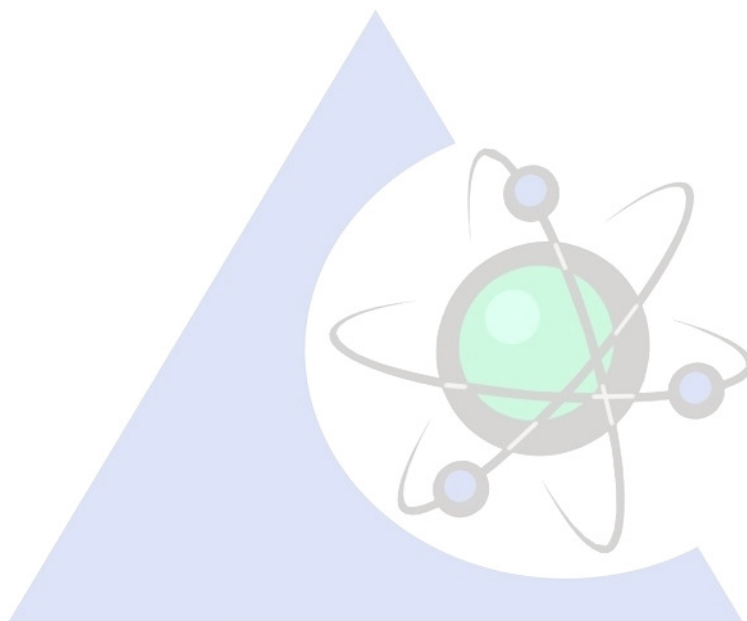
### Contract Testing Laboratories of America

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.



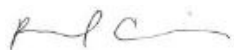
## Certificate of Analysis

<b>CTLA ID</b>	69344	<b>Sample Name</b>	30098 Alpha Neuroprotector
<b>Customer</b>	Thrivous	<b>Lot Number</b>	2305401
<b>Date Received</b>	3/6/2023	<b>Date Complete</b>	3/10/2023
<b>Customer Address:</b>	PO BOX 4078 #73216, Salt Lake City, Ut. 84110		

ANALYSIS	SPECIFICATION	RESULT	METHOD	MDL	UNITS
<b>Complete Rapid Micro</b>					
Total Plate Count	Report	300	USP<2021>	100	cfu/g
Total Coliforms	Report	<10	BAM CH.4	10	cfu/g
<i>E. coli</i>	Report	Absent	USP<2022>		
<i>Salmonella</i>	Report	Absent	USP<2022>		
<i>S. aureus</i>	Report	Absent	USP<2022>		
Rapid Yeast & Mold	Report	<10	AOAC 2014.05	10	cfu/g
<b>Heavy Metal</b>					
Arsenic	Report	0.019	USP <2232>	0.001	ppm
Cadmium	Report	<0.001	USP <2232>	0.001	ppm
Mercury	Report	<0.001	USP <2232>	0.001	ppm
Lead	Report	<0.001	USP <2232>	0.001	ppm
Acetyl L Carnitine Hydrochloride (ALCAR HCL)	Report	500	By Input		mg
L Alpha Glycerylphosphorylcholine (Alpha GPC)	Report	300	By Input		mg
Sodium R Alpha Lipoic Acid (Na R ALA)	Report	150	By Input		mg
Phosphatidylserine (PS from Serinaid® 70P 143mg)	Report	100	By Input		mg
Ginkgo Biloba Leaf Extract (20% Flavone Glycoside, 6% Terpene Lactone)	Report	90	By Input		mg
<b>Other ingredients:</b> Apple Cider, Cellulose, Stearic Acid, Sodium Stearyl Fumarate					

**COA Note:**

**Approved By:**



**Date:**

3/10/2023

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

# Certificate of Analysis

## Sample Information

CTLA ID: 69344  
 Date Received: 3/6/2023  
 Sample Name: 30098 Alpha Neuroprotector  
 Lot Number: 2305401  
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>Rapid Complete Micro</b>					
Total Plate Count	USP <2021>	100	Report	300	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Absent	
<i>Salmonella</i>	USP <2022>		Report	Absent	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>Heavy Metals</b>					
Arsenic	USP <233>	0.001	Report	0.019	ppm
Cadmium	USP <233>	0.001	Report	<0.001	ppm
Mercury	USP <233>	0.001	Report	<0.001	ppm
Lead	USP <233>	0.001	Report	<0.001	ppm
<b>Amazon document fee</b>			Report		

3/10/2023

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. This document is not to be altered or reproduced except by the original authorizing body (CTLA)

## CERTIFICATE OF ANALYSIS

Issued date : Jul. 05, 2022

**Product Description**      Empty Hard Capsule From Hypromellose (HPMC)

Customer :	SUHEUNG-AMERICA	U.S.A	Manufacturing Date :	Jun. 07, 2022
Capsule Type :	EMBO CAPS®	VG-PRO "Kosher and Halal Certified"	Expiration Date :	Jun. 06, 2027
Capsule Item No. :	VP00A051A051		Quantity :	8,400,000 PCS ( 120 Cartons)
Lot Number :	VP00A051A051 - 223115		Carton No. :	1 - 120
Product Size :	00			
Product Code :	<u>CAP</u>	<u>BODY</u>		
	Color	A051 (CLEAR)		A051 (CLEAR)

**Composition**

Cap	Hypromellose	qsp 100	Body	Hypromellose	qsp 100
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**Analytical Results**

	<u>Test Items</u>	<u>Unit</u>	<u>Standard</u>	<u>Results</u>	<u>Test Method</u>
Length	Cap	mm	11.3 ~ 12.1	11.8	In-house Spec.
	Body	mm	19.8 ~ 20.6	20.3	In-house Spec.
Weight		mg	109.5 ~ 136.5	122.3	In-house Spec.
Identification of Hypromellose*			Positive	Positive	USP/EP
Disintegration		min/sec	NMT 15	13'45"	USP/EP
Loss on Drying		%	3.0 ~ 7.0	4.7	USP/EP
Residue on Ignition (Ash)*		%	NMT 3.0	1.1	USP/EP
TAMC		CFU/g	NMT 500	<10	USP/EP
TYMC		CFU/g	NMT 100	<10	USP/EP
E.Coli			Negative/10g	Negative	USP/EP
Salmonella			Negative/10g	Negative	USP/EP
Staphylococcus aureus			Negative/10g	Negative	USP/EP
Pseudomonas aeruginosa			Negative/10g	Negative	USP/EP

\* Reduced frequency testing

**Elemental Impurities**

Suheung Empty Hard Capsules comply with ICH Q3D for elemental impurities and meeting below acceptance level.

Elemental impurities test results based on continuous monitoring program.

<u>Elemente</u>	<u>Unit</u>	<u>Acceptance level</u>
Arsenic	ppm	NMT 1.0
Lead	ppm	NMT 1.0
Cadmium	ppm	NMT 0.5
Mercury	ppm	NMT 0.1
Cobalt	ppm	NMT 5
Vanadium	ppm	NMT 10
Nickel	ppm	NMT 20

**Ingredients List**

<u>Ingredients Name</u>	<u>E Nr</u>	<u>CI Nr</u>	<u>Function</u>	<u>Regulatory Reference</u>
Hypromellose			Structure	EP, JP, USP/NF

- Storage Conditions : recommended 15~25°C and 35~65%RH

- We, Suheung Co., Ltd., hereby certify that the Empty Hard Capsules manufactured by us are free from Preservatives and no Ethylene Oxide or/and Irradiation Treatment .

\* ORDER NO. HC6764

 Park 7/5  
 Quality Assurance Manager



**Contract Testing Laboratories of America**

Email: cs@ctlatesting.com

Phone: (385) 477-4999

ISO/IEC 17025:2017 102267

FDA Registration #: 10849021016

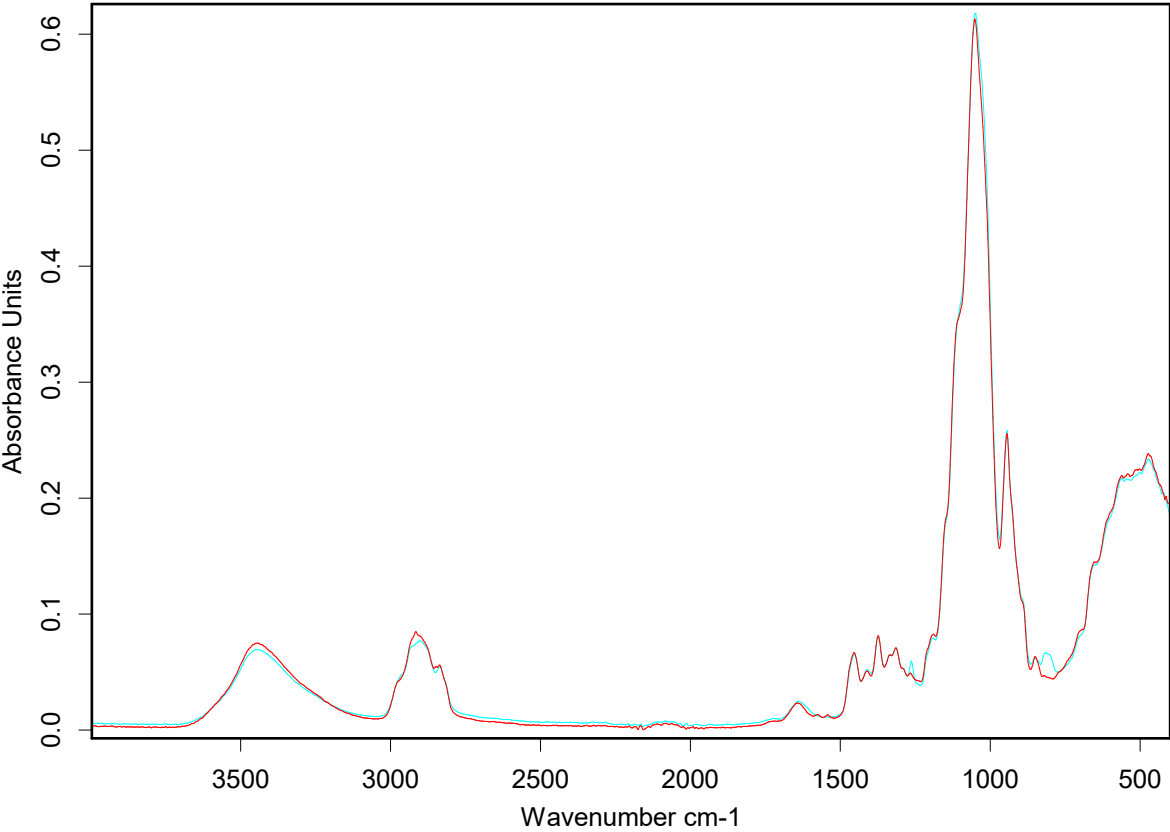
DEA #:12170754-1714, 12170754-8915

**Certificate of Analysis****Client Name:** Origin Nutraceutical**Sample ID:** 65295**Address:** 151 E 3450 N  
Spanish Fork, UT 84660**Sample Type:****Date Recieved:** 10/18/2022**Sample Name:** 10344 CPS Capsule, HPMC, 00, Clear**Date Completed:** 10/20/2022**Lot Number:** 45226**COA Notes:****Chemistry Category****ID**

Test	Method	MDL	Specification	Result	Units
ID	FTIR		Report	97.2	%

Brescia Eppley  
Quality Assurance Specialist

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. OOS = Out of Specification. Alteration of this Certificate of Analysis is prohibited and will render the Certificate void. CTLA is the testing laboratory for the manufacturer. In case of product questions, please contact the manufacturer directly.



Product Number	ON 10344 CPS Capsule HPMC 00 Clear 25361
Entry No.	2026
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
	981	ON 10344 CPS Capsule HPMC 00 Clear 25361 Standard 2			

Color	File	Path	Spectrum Type
	65295-ON 10344 CPS Capsule HPMC 00 Clear (45226).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

## CERTIFICATE OF ANALYSIS

**Product:** Apple Fiber – 40 Mesh  
**Lot #:** D002APFB2-40M  
**Pack Date:** January 6, 2022  
**Expiration Date:** January 6, 2024  
**Species/Genus:** Malus Domestica  
**Part if Plant Used:** Flesh of Fruit  
**Country of Origin:** USA

ANALYTICAL	METHOD	RESULTS
Particle Size	U.S.A. Standard Testing Sieve	99.8% Thru 40 mesh screen
% Moisture	Moisture Analyzer	2.85%
Color & Appearance	Visual	Tan, in color
Water Activity (a <sub>w</sub> )	Water Activity Meter	0.2390
Aerobic Plate Count (cfu/gram)***	AOAC Method 990.12	380 cfu/gram
Yeast (cfu/gram)***	AOAC Method 997.02	1,060 cfu/gram
Mold (cfu/gram)***	AOAC Method 997.02	<10 cfu/gram
Coliforms (cfu/gram)***	AOAC Method 991.14	<10 cfu/gram
E. Coli (cfu/gram)***	AOAC Method 991.14	Negative

\*\*\*Micro results are the highest readings from 3 separate samples.

**Packaging / Fill:** 50 Lbs./Case

**Reported By:** Maria Rangel



Contract **TESTING** Laboratories  
OF AMERICA

# Certificate of Analysis

## Sample Information

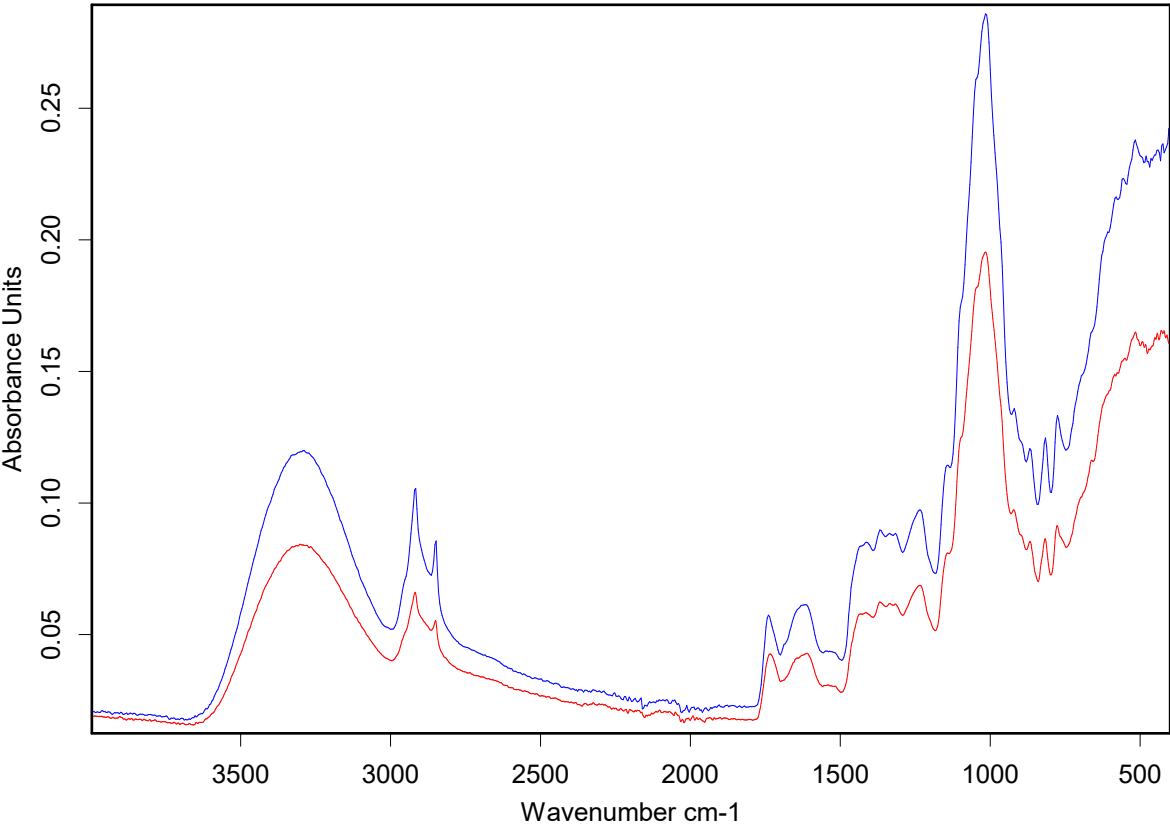
CTLA ID: 64708  
Date Received: 12/22/2022  
Sample Name: 10008 DRM Apple Fiber  
Lot Number: 46420  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	97.8	%

12/29/2022  
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	10008 Apple Fiber 62642 Standard 2
Entry No.	10
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	10008 Apple Fiber 62642 Standard 2			

Color	File	Path	Spectrum Type
	64708-ON 10008 DRM Apple Fiber (46420).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

**PRUV®**  
Sodium Stearyl Fumarate Ph. Eur., NF, JPE  
**CERTIFICATE OF ANALYSIS**

Batch No.: **3059**  
Re-evaluation date: **09/2024**  
Manufacturing date: **09/2021**

Manufacturing Site: **Polanco, Spain**

Description	
Appearance	white or almost white, fine powder with agglomerates of flat, circular particles
Solubility	practically insoluble in water, slightly soluble in methanol, practically insoluble in acetone and in ethanol

Characteristics	Specification	Lot Result	Test Reference
Identification (1) <sup>2)</sup>	Conforms	Conforms	Ph. Eur., NF, JPE
Water	Max. 5.0%	3.0 %	Ph. Eur., NF, JPE
Lead <sup>1)</sup>	Max. 0.001%	< 0.001%	USP
Heavy metals	Max. 0.002%	< 0.002%	JPE
Saponification value	142.2 - 146.0	144.8	NF, JPE
Limit of Sodium stearyl maleate <sup>2)</sup>	Max. 0.25%	< 0.25 %	NF
Limit of Stearyl alcohol <sup>2)</sup>	Max. 0.5%	< 0.5 %	NF
Assay	99.0 - 101.5%	100.9 %	Ph. Eur., NF, JPE
Related substances (Ph. Eur.)	Largest single impurity max. 0.5%	0.3 %	Ph. Eur.
	Total Impurities max. 5.0%	0.5 %	Ph. Eur.
Related substances (JPE) <sup>1)</sup>	Conforms	Conforms	JPE
Identification (2)	Responds to qualitative test (1) for sodium salt	Conforms	JPE
Arsenic <sup>1)</sup>	Max. 2 ppm	< 2 ppm	JPE
Specific Surface Area (Blaine)	1.2 - 2.0 m <sup>2</sup> /g	1.7 m <sup>2</sup> /g	Ph. Eur.
Residual Solvents (GC) <sup>3)</sup>	Acetone max. 500 ppm	< 500 ppm	JRS method
	Toluene max. 890 ppm	< 890 ppm	JRS method
Particle size distribution (Laser diffraction)	d10: max. 2.5 µm	1.4 µm	JRS method
	d50: max. 20 µm	7 µm	JRS method
	d90: max. 45 µm	24 µm	JRS method

- 1) Results reported are expected results based on historical data.  
2) Additional data in attachment.  
3) The raw materials, manufacturing process and product do not contain any of the solvents listed in Residual Solvents (USP<467>, Ph. Eur. <5.4>) except toluene and acetone.  
Conformity declaration regarding the general chapters for residual solvents (USP<467>, Ph. Eur. <5.4>): Only class 2 solvent toluene and class 3 solvent acetone are likely to be present. Residual Class 2 solvent is below the option 1 limit and residual Class 3 solvent is below 0.5 per cent.  
PRUV® is not routinely tested for toluene as the content complies with the exemption procedure B (Class 2 solvents used prior the last step of the synthesis) in Annex I CPMP/QWP/450/03 of the Guideline CPMP/ICH/283/95.  
Elements listed in ICH Q3D Guideline for elemental impurities are not used in manufacturing and not analyzed per batch; detail information is available on request.

Zpruvp04

The batch described by this certificate meets the requirements of Ph. Eur., NF, and JPE monographs for "Sodium Stearyl Fumarate" current edition.

2021-12-02  
Ref: JRS Pharma LP

Stefanie Henker  
QUALITY ASSURANCE  
Pharmaceutical and Food Excipients

WORLDWIDE HEADQUARTERS  
**JRS PHARMA GMBH & CO. KG**

Holzmuhle 1 - 73494 Rosenberg (Germany)  
Phone: +49 7967 152-312  
Fax: +49 7967 152-345  
ExcipientsService@JRSPharma.de www.jrspharma.com www.jrs.de  
Customer Service: +49 7967 152-312

USA  
**JRS PHARMA LP**

2981 Route 22, Suite 1 - Patterson, NY 12563-2359 (USA)  
Toll Free: +1 (800) 431 2457  
Phone: +1 (845) 878 3414 Fax: +1 (845) 878 3484  
info@jrspharma.com www.jrspharma.com  
Customer Service: +1 (845) 878 3414

# Certificate of Analysis

## Sample Information

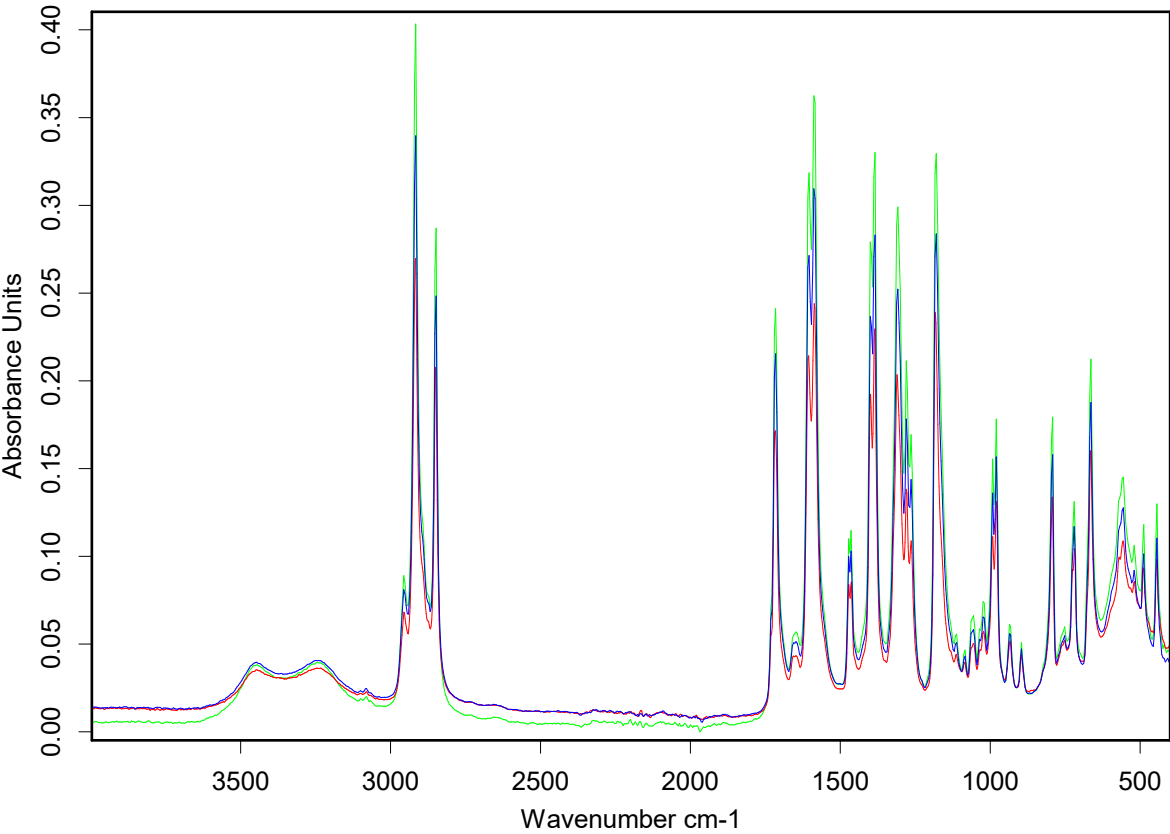
CTLA ID: 51336  
Date Received: 4/27/2022  
Sample Name: 10530 DRM Exc Pruv  
Lot Number: 42358  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	94.10	%

4/29/2022  
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	45341-ON 10530 DRM EXC PRUV 40701
Entry No.	238
Library name	COMPARISON TESTS.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
Blue	962	45341-ON 10530 DRM EXC PRUV 40701			
Green	959	10530 PRUV 4862 Standard 2			

Color	File	Path	Spectrum Type
Red	51336-ON 10530 DRM EXC PRUV (42358).1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



# KONSEP TRADISI SDN BHD

No. 15 Jalan Anggerik Mokara 31/56, Kota Kemuning, 40460 Bandar Shah Alam,  
Selangor Darul Ehsan, Malaysia.

Tel : 603-5121 0198/8198 Fax : 603-5122 3198



Proudly Supplied By: Vivion, Inc.  
929 Bransten Road, San Carlos, CA 94070  
Phone: (650) 595-3600, Fax: (650) 595-2094

DATE : 30/05/2018  
PRODUCT : STEARIC ACID VEG NF PWD  
QUANTITY : 20.0 METRIC TONS (1000 CARTON BOXES) P.O NO. : 15528  
LOT NO. : 211805 15528 105 COUNTRY OF ORIGIN : MALAYSIA  
MFG DATE : 21 MAY 2018 EXPIRE DATE : 20 MAY 2021  
FDA - FOOD FACILITY REGISTRATION NO. 19375870600

1004815  
1218-20871  
Jg 12/19/18

## CERTIFICATION OF ANALYSIS

We certified that we have analysed a composite sample of the above mentioned goods with the following results:

	NF Specification	Test Methods	Test Result
Identification			
A (Freezing Point)	To Pass Test	NF	Pass
B (Acid Value)	194 - 212	NF	208.6
C (Retention Time Peaks)	To Pass Test	NF	Pass
Residue on Ignition (%)	Not more than 0.1%	NF	<0.01
Heavy Metals ppm	Not more than 10 ppm	NF	<10
Lead ppm	1 ppm max		<1
Arsenic ppm	0.5 ppm max		<0.5
Mercury ppm	1 ppm max		<1
Fat and Fixed Oils, Iodine Value USP <401>	Not more than 4.0	NF	0.24
Color of Solution	Meets Requirements	NF	Pass
Acidity	Meets Requirements	NF	Pass
Freezing Point	53 - 59 Deg. C	NF	56.2
Residual Solvents	No Solvents Used		None
(NF Methods are described in the NF Monograph)			
Fatty Acid Composition in %	NF Method using USP Stearic Acid RS And USP Palmitic Acid RS		
C <sub>12</sub> /C <sub>14</sub>	3 %	- / <0.1	
C <sub>16</sub>	40 % Min	51.2	
C <sub>18</sub>	40 % Min	48.4	
C <sub>20</sub>	1 %	0.4	
Combination of C <sub>16</sub> & C <sub>18</sub> in not less than 90%			
Mesh size	<u>% Retained (Max)</u>	<u>% Retained</u>	
200 Mesh	70.0	46.0	
100 Mesh	10.0	8.0	
50 Mesh	0	0	

  
Major (Rtd) Foo See Nam  
B.Sc. M.Sc Chemical Engineering  
Quality Control Officer



# KONSEP TRADISI SDN BHD

No. 15 Jalan Anggerik Mokara 31/56, Kota Kemuning, 40460 Bandar Shah Alam,  
Selangor Darul Ehsan, Malaysia.

Tel : 603-5121 0198/8198 Fax : 603-5122 3198

DATE : 30/05/2018  
PRODUCT : STEARIC ACID VEG NF PWD  
QUANTITY : 20.0 METRIC TONS (1000 CARTON BOXES) P.O NO. : 15528  
LOT NO. : 211805 15528 105 COUNTRY OF ORIGIN : MALAYSIA  
MFG DATE : 21 MAY 2018 EXPIRE DATE : 20 MAY 2021  
FDA - FOOD FACILITY REGISTRATION NO. 19375870600

## CERTIFICATION OF ANALYSIS

We certified that we have analysed a composite sample of the above mentioned goods  
with the following results:

	Methods	Test Result
Total Plate Count cfu/g	FDA/BAM	< 10
Mould & Yeast cfu/g	FDA/BAM	< 10
E. Coli	FDA/BAM	Absent
Salmonella in 25g	FDA/BAM	Absent
Staphylococcus aureus	FDA/BAM	Absent
Coliform	FDA/BAM	Absent

  
Major (RM) Foo See Nam  
B.Sc. M.Sc Chemical Engineering  
Quality Control Officer



# Certificate of Analysis

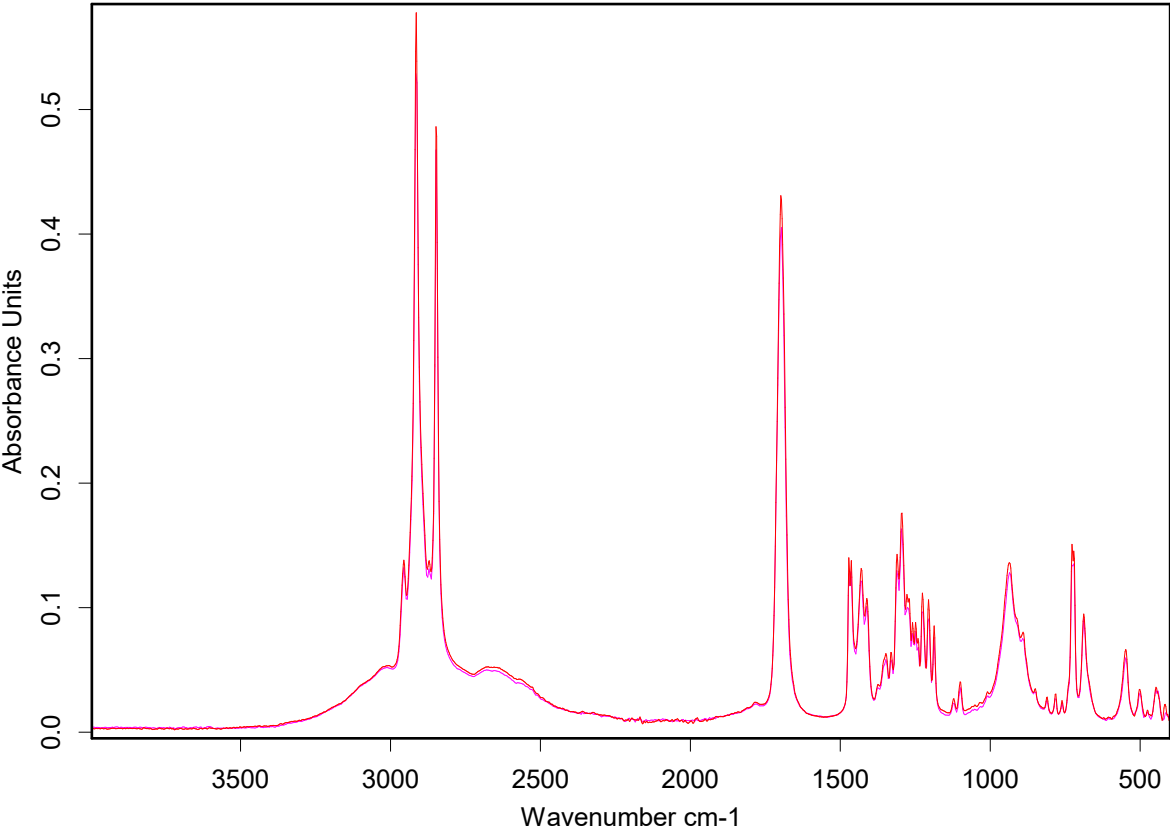
## Sample Information

CTLA ID: 6995  
Date Received: 3/19/2019  
Sample Name: 10050 Stearic Acid Vegetable  
Lot Number: 14205  
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
E. Coli	USP <2022>		Report	Negative	
Salmonella	USP <2022>		Report	Negative	
Staph. aureus	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. MDL = Machine Detection Limit.



Product Number	10050 Stearic Acid Vegetable 4266 Standard 2
Entry No.	807
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
	983	10050 Stearic Acid Vegetable 4266 Standard 2			

Color	File	Path	Spectrum Type
	6995-10050 DRM Stearic Acid Vegetable (Halal) 14205.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Origin Nutraceutical	<b>EXPIRATION DATE EXTENSION</b>		Version: 2.0 Date Revised: 12/16/21 Revision Number: 1
Document Number: <b>ORN-FRM2-045-02</b>			Page 1 of 1
Author: K. Mayne Date: 12/16/21	Dept. Approved Signature:  Date: 12/16/21	QC Approval Signature:  Date: 12/16/21	

### Origin Information

Origin Part Number	10050
Origin Product Name	EXC Steril Acid
Origin Lot Number	14205

Refer to flow chart in ORN-FLW1-045

### Identification

Date Received:	3/18/2019	Expiration Date on CoA:	5/20/2021
Supplier:	Vision	Expiry interval on CoA:	6 months <input type="checkbox"/>
Supplier Lot #:	21186515528165	1 yr. <input type="checkbox"/> 2 yr. <input type="checkbox"/> 3 yr. <input checked="" type="checkbox"/> Other: _____	

### Analysis

	Specification	Pass/Fail	Test Date	Initial
Micro Test Results^:	<160	P/F/na	3/19/2019	DL
Active Test Results*:	NA	P/F/na	NA	DL
Flavor (flavors only)	NA	P/F/na	NA	DL
Color	white	P/F/na	3/8/22	DL
Odor	normal	P/F/na	3/8/22	DL
Apperance	Normal	P/F/na	3/8/22	DL

\*Active Test not required if there is no active in the material or no active content claim made on the label.

^Microbial Test not required if original test total plate count was <10,000 CFU/g.

### Overall Results

PASS ☒ FAIL ☐

If PASS\*, use expiry interval on CoA to determine new expiration date: 3/8/25

If fail, QC meet with management to determine whether to dispose (Destruction Request ORN-FRM1-045).

QC Enter new Expiration Date in Infinity: DL

QC print new label for item: DL

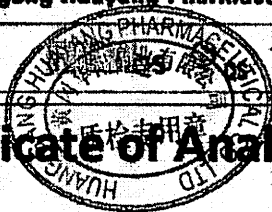
QC attach this form to paperwork: DL

WH places new label on item: A7

\*Justification for Extension: If PASS, the applicable tests show the active content is still 95+% (if an active is present and testable), there is no microbial contamination, and there has been no significant change in the flavor, color or texture of the ingredient. Since all applicable tests have passed showing the material has not degraded, the expiration date of the product can be extended based on the expiry interval of the original CoA, which is listed above. Finished product must pass microbial testing.



**黄冈华阳药业有限公司**  
Huanggang Huayang Pharmaceutical Co., Ltd.



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## Certificate of Analysis

Product Name	Acetyl-L-Carnitine HCL	Check Foundation	In-house Standard
Batch Quantity	1500kgs	Batch No	ALC20110701
Package	25kg/drum	Manufacturing Date	NOV 07, 2020
Checking Date	NOV 07, 2021	Retesting Date	NOV 06, 2023

Check Item	Specification	Methods	Check Results
Identification	In accordance with the IR absorption spectrum of the standard	IR	Conform
Appearance	White Crystalline Powder	Visual	Conform
Particle size (mesh)	Through 20mesh	20 Mesh Screen	100% passed
Specific Rotation	-27.0° ~ -29.0°	USP	-28.1°
PH	2.3~2.6	USP	2.4
Loss on drying	≤0.50%	USP	0.09%
Residue on ignition	≤0.50%	USP	0.07%
Assay	98.0%~101.0%	Titration	99.8%
Heavy metal	≤10ppm	USP	<10ppm
Lead (Pb)	≤3ppm	USP	<3ppm
Cadmium (Cd)	≤1ppm	USP	<1ppm
Mercury (Hg)	≤0.1ppm	USP	<0.1ppm
Arsenic (As)	≤1ppm	USP	<1ppm
TPC	≤1000Cfu/g	USP	< 10Cfu/g
Yeast & Mold	≤100Cfu/g	USP	< 10Cfu/g
E.Coli	Negative	USP	Negative
Salmonella	Negative	USP	Negative
Bulk density	0.3-0.7 g/ml	Physical	Conform
Tapped density	0.5- 0.9 g/ml	Physical	Conform
Conclusion: Comply with In-house Standard			
Tester: 朱红燕		Auditor: [Signature]	

# Certificate of Analysis

## Sample Information

CTLA ID: 68736  
Date Received: 2/24/2023  
Sample Name: 10276 N-Acetyl-Carnitine HCl (ALCAR)  
Lot Number: 41818/46052  
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
<b>Rapid Complete Micro</b>					
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Absent	
<i>Salmonella</i>	USP <2022>		Report	Absent	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g

2/28/2023

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. This document is not to be altered or reproduced except by the original authorizing body (CTLA)

# Certificate of Analysis

## Sample Information

CTLA ID: 65722  
Date Received: 1/9/2023  
Sample Name: 10276 N-Acetyl-L-Carnitine HCl (ALCAR)  
Lot Number: 41818 / 46052  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
N-Acetyl-L-Carnitine	HPLC	0.002 Report	94.230	g/100g

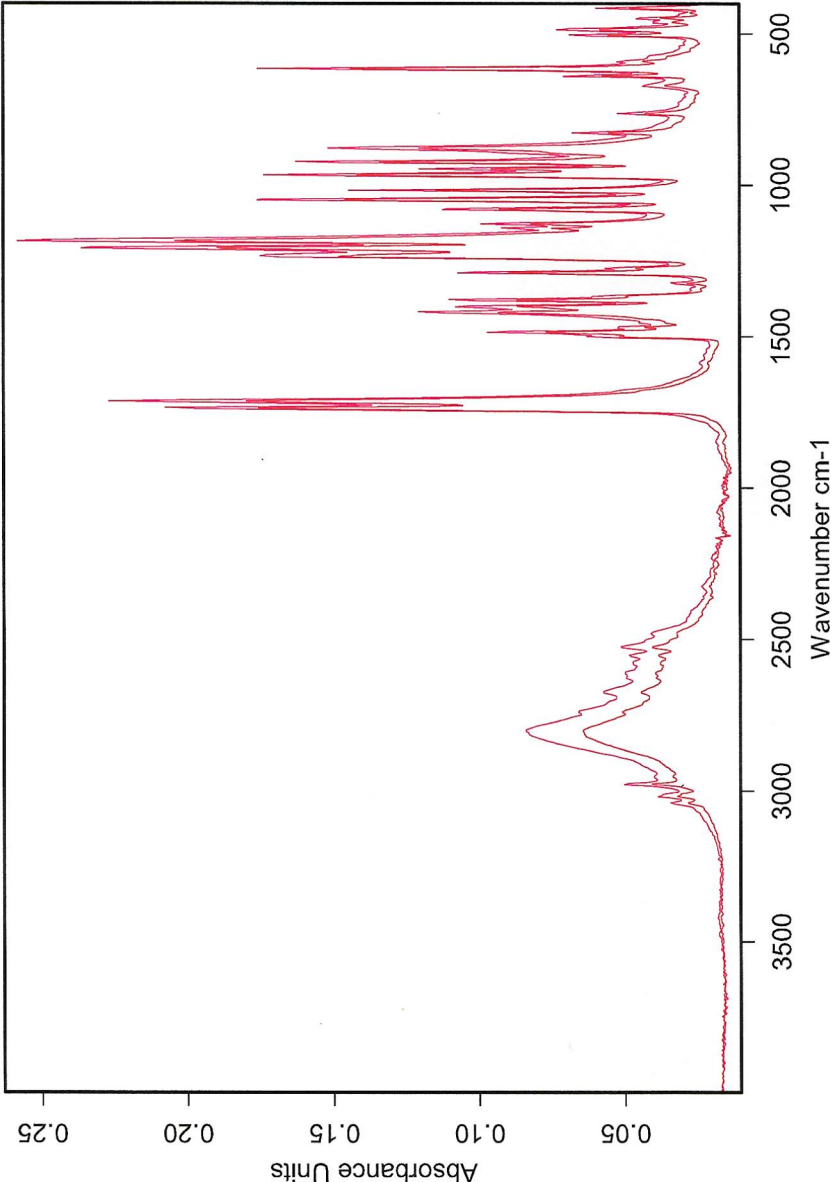
1/24/2023

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. This document is not to be altered or reproduced except by the original authorizing body (CTLA)





Product Number	10276 NAI Carnitine Standard
Entry No.	156
Library name	RM TEST.S01
Library description	Testing of Raw Materials
Copyright	User library

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	970	10276 NAI Carnitine Standard			

Color	File	Path	Spectrum Type
	49330-ON DRM N-Acetyl- L-Carnitine HCl (ALCAR) (41818)	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



西玛生物  
www.cimasci.com

Wuxi Cima Science Co., Ltd.

Tel: (86-510)-8518 8225

Fax: (86-510)-8518 5685

E-mail: info@cimasci.com

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## Certificate of Analysis

Product and Batch Information			
Product Name	Choline Alfoscerate Powder	Country of Origin	P.R. China
CAS No.	28319-77-9	Molecular Weight	257
Molecular Formular	C <sub>8</sub> H <sub>20</sub> NO <sub>6</sub> P	Batch	CS-GPCP-210205
Manufacture Date	Feb 05, 2021.	Analysis Date	Feb 05, 2021.
Report Date	Feb 08, 2021.	Expired Date	Feb 04, 2023.

Item	Specification	Result	Test Method
<b>Active Ingredient</b>			
Assay(% ,On Dried Base)	98.5%~102.0%	99.95%	KPC
<b>Physical Control</b>			
Appearance	Fine Powder with highly Hygroscopic	Complies	Visual
Color	White to light yellow	Complies	Visual
Odor	Neutral	Complies	Organoleptic
Identification	The R value of the sample and STD should be same.	Complies	TLC
Specification Rotation[α] <sup>25</sup> <sub>D</sub>	-2.4° to -2.8°	-2.69°	KPC
Solubility(H <sub>2</sub> O,10%W/W)	Clear	Complies	Visual
Color of Solution	NMT Y7	Complies	KPC
Water	1.0% Max	0.36%	K.F.
Ph(10% GPC Solution,w/v)	5.0-7.0	6.0	KPC
<b>Chemical Control</b>			
Heavy Metals	NMT10PPM	Conforms	CPh
Sulfate(SO <sub>4</sub> )	NMT 0.020%	Conforms	CPh
Iron(Fe)	NMT10PPM	Conforms	CPh
Chloride(Cl)	NMT 0.020%	Conforms	CPh
Phosphate Ion(P)	The color of the sample is not darker than that of reference.	Conforms	KPC
Solvent Residual	Meeting USP Standard	Conforms	GC
Related Substance	Total impurites:NMT2.0%	Conforms	KPC
	Single impurity:NMT0.5%	Conforms	KPC
<b>Packing and Storage</b>			
Packing	Pack in paper-drums and Aluminum foil lined-bags inside. 25Kg/Drum		
Storage	Store in a well-closed container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		

QC:



Contract **TESTING** Laboratories

OF AMERICA

# Certificate of Analysis

## Sample Information

CTLA ID: 29093  
Date Received: 3/18/2021  
Sample Name: 11023 aGPC 99%  
Lot Number: 34114  
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>Alpha glycerylphosphorylcholine</b>	HPLC	.01	>=99	99.3	%
<b>FTIR Spectra</b>	FTIR		Report	Attached	

4/9/2021

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

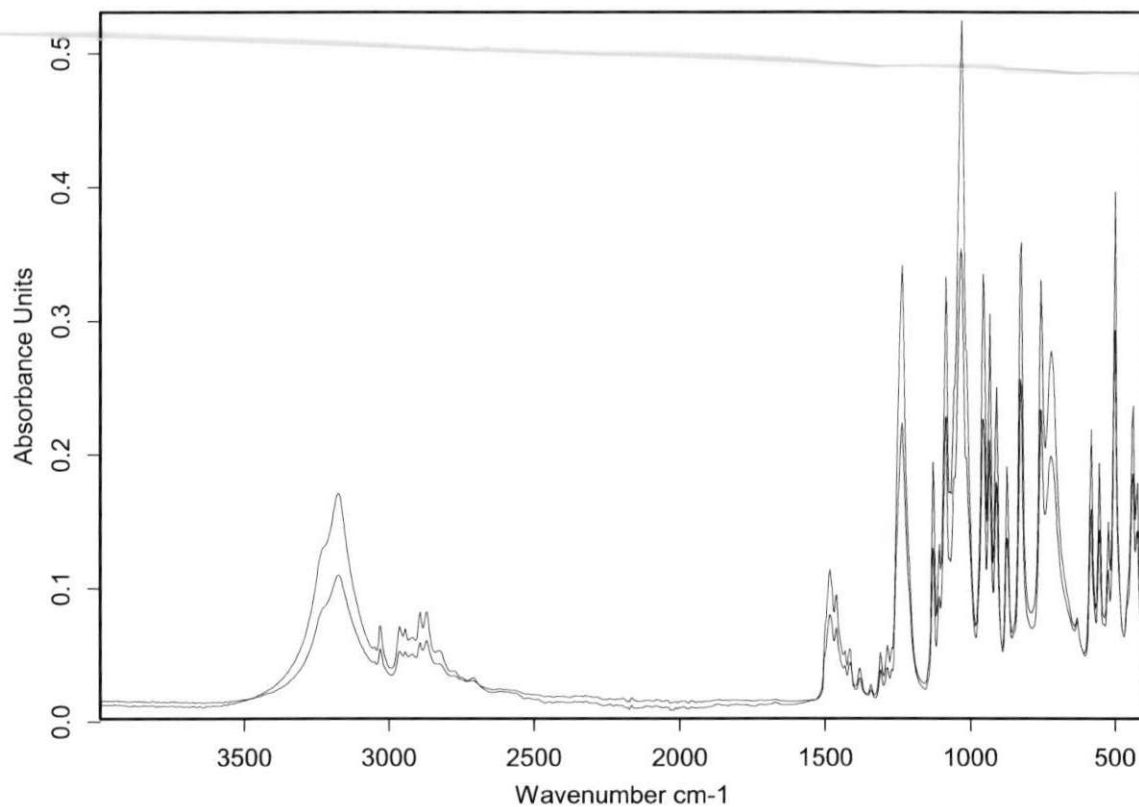
CTLA ID: 65723  
Date Received: 1/9/2023  
Sample Name: 11023 L-Alpha Glycerylphosphoryl Choline  
Lot Number: 34114  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Alpha glycerylphosphorylcholine	HPLC	0.002 Report	98.059	g/100g

1/23/2023  
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 11023 DRM aGPC 99% 34114 Standard 1
Entry No.	2413
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
	957	ON 11023 DRM aGPC 99% 34114 Standard 1			

Color	File	Path	Spectrum Type
	29093-ON 11023 DRM aGPC 99% 34114.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



Herb Green Health  
禾 绿 康 健

# Certificate of Analysis



Product Name	Ginkgo Biloba Extract	Sample Quantity	1362.8kg
Latin Name	<i>Ginkgo Biloba</i> L.	Botanical part used	Dried leaves
Extract solvent	Ethanol&Water	Carrier	None
Batch No.	20181202	Extract ratio	50:1
Manufacturing Date	2018-12-18	Sampling date	2018-12-20
Expiry Date	2021-12-17	Report Date	2018-12-27
Country of Origin	China	Specification	TS3-C110201-03-00-B

Test Items		Specifications	Test Results	Test Method
Character	Appearance	It should be light brown yellow to tan powder .Little bitter.	Complied	Organoleptic
Identification	TLC	Have to comply	Complied	ChP<0502>
	Fingerprint	Have to comply	Complied	HPLC
	HPLC	Q/K NLT 0.8-1.2	1.09	ChP<0512>
	HPLC	I/Q NLT 0.15	0.31	ChP<0512>
Content	Total flavone glycosides, %	22.0-27.0 (Calculated as flavonol glycosides , Q+K+I, on the dried basis )	24.2 (10.89+9.96+3.35)	ChP<0512>
	Terpene lactones, %	5.4-12 (Calculated as Terpene lactones, on the dried basis )	8.31 (3.31+2.21+1.18+1.61)	ChP<0512>
		2.6-5.8 Bilobalides	3.31	
		2.8-6.2 Ginkgolides A+B+C	5.00	
	Ginkgolic acids, ppm	NMT 5.0	1.05	ChP<0512>
Test	Loss on drying, %	NMT 5.0	2.04	ChP<0831>
	Particle size(80mesh sieve), %	95	99.63	Ch.P<0982>
	Bulk density, g/mL	0.45-0.55	0.46	Enterprise method
	Rutin, %	NMT 3.0	2.03	ChP<0512>
	Free Quercetin, %	NMT 0.3	0.11	ChP<0512>
	Sophoricoside, ppm	NMT 300	Complied	ChP<0512>
Heavy metal	Heavy metal, mg/kg	NMT 20	Complied	Ch.P<0821>
Pesticide residue	Pesticide residue	USP<561>	Complied	Test by External Lab
Solvent residue	Ethanol, ppm	NMT 1000	Complied	ChP<0861>
	Methanol, ppm	NMT 10	Complied	ChP<0861>
Other limited	PAHs, ppb	NMT 50	Complied	Test by External Lab
	BaP, ppb	NMT 10	Complied	Test by External Lab
	Total aerobic bacteria count, cfu/g	NMT 1000	<10	ChP<1105>

地址: 中国江西省赣州市宁都县水东工业园莲花南路  
电话 (TEL) : 0086-574-87432602, 87432606

Address: Lianhua South Road, Ningdu Industrial Zone, Ganzhou, Jiangxi, P.R.C  
邮编 (Postcode) : 5342800

传真 (FAX) : 0574-87432605



Herb Green Health

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## Certificate of Analysis



Microbial limits	Total molds and yeasts count, cfu/g	NMT 100	<10	ChP<1105>
	E. coli, /g	Absent	ND	ChP<1106>
	Salmonella, /g	Absent	ND	ChP<1106>
Conclusion: The test results conform to the manufacture's standard.				
Storage: Preserve in room temperature, sealed place, keep away from light.				
Shelf life: 3 years.				
Note: This product is non-GMO, non-irradiation, non- ETO, TSE / BSE free.				
Analyst: Liu Ying		Recheck: Zhang Lizhen		
Approved: Guan Lanfang		Issue date: 2018-12-27		

地址: 中国江西省赣州市宁都县水东工业园莲花南路 Address: Lianhua South Road, Ningdu Industrial Zone, Ganzhou, Jiangxi, P.R.C

电话 (TEL): 0086-574-87432602, 87432606

邮编 (Postcode): 5342800

传真 (FAX): 0574-87432605



## Certificate of Analysis

### Sample Information

CTLA ID: 13263  
Date Received: 12/12/2019  
Sample Name: 10322 Ginkgo Biloba Leaf PE 24/6  
Lot Number: 21010  
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	100	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
<b>HPTLC</b>	HPTLC	Report	Characteristic	
<b>Ginkgo flavone Glycosides</b>	HPLC	Report	24.35	%
<b>Ginkgo Terpene Lactones</b>	HPLC	Report	6.113	%

12/23/2019  
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: 65517  
Date Received: 1/5/2023  
Sample Name: 10322 Ginkgo Biloba Leaf PE 24/6  
Lot Number: 21010  
Customer: Origin Nutraceutical

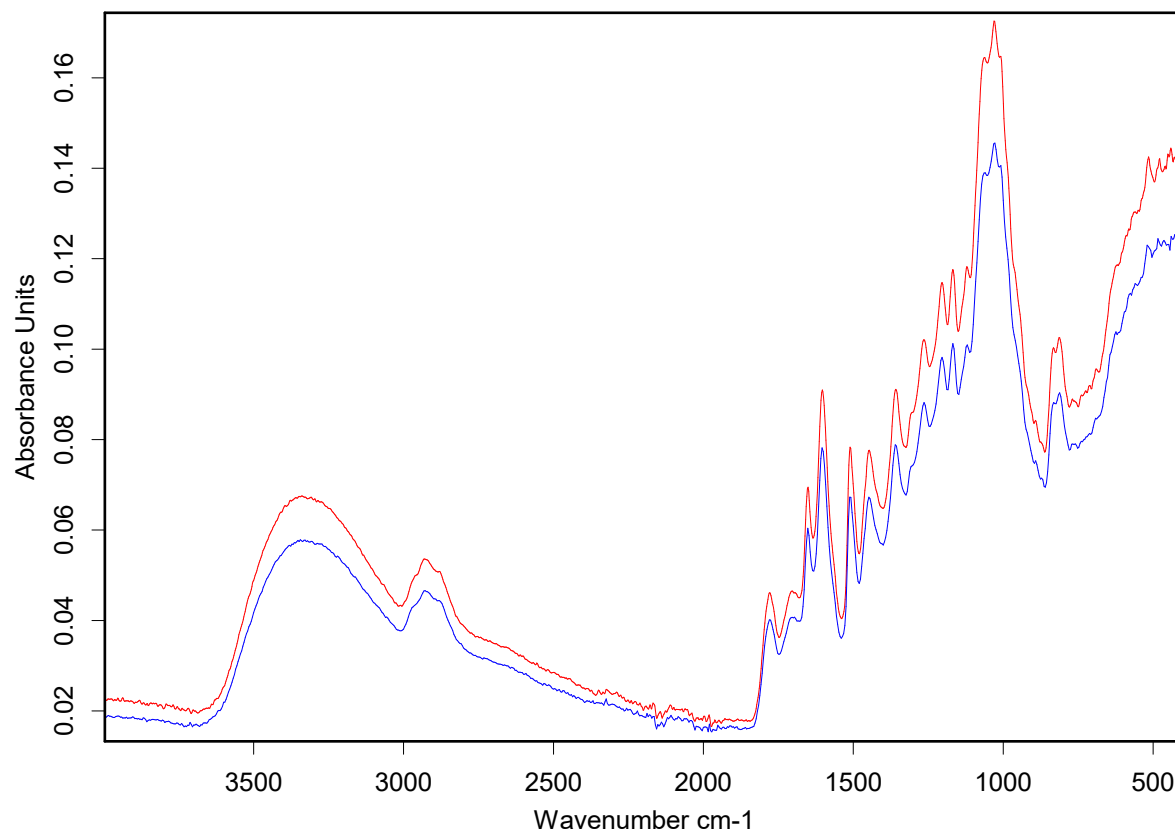
Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	96.8	%
FTIR Spectra	FTIR	Report		
Ginkgo flavone Glycosides	HPLC	0.002 24	25.8	%
Ginkgo Terpene Lactones	HPLC	0.002 6	7.3	%

Amended Report: added tests

1/26/2023  
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 10322 Ginkgo Biloba Leaf Pe 2416 (21010)
Entry No.	1846
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

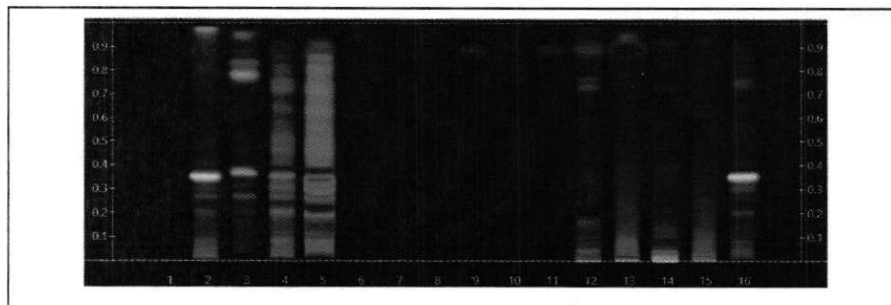
Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	979	ON 10322 Ginkgo Biloba Leaf Pe 2416 (21010) Standard 2			

Color	File	Path	Spectrum Type
	29414-ON 10322 Ginko Biloba 21010.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

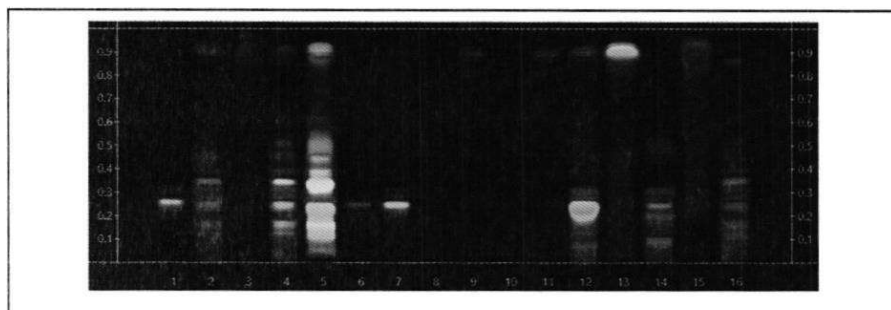


**Certificate of Analysis: CTLA 13263 (CTLA 13263)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



**Company Name:**  
**Title:**  
**Plant Part:**  
**Appearance:**  
**Sample Packaging:**

CTLA  
CTLA 13263  
Leaf  
Fine tan powder  
Clear Whirl-Pak

**Sample Received:** 12/16/19  
**Form of Botanical:** crude plant powder  
**Lot Number:** (CTLA 13263) → Lanes 4(0.5µl), 5(3µl)  
**Sample:** 19350MJN\_1

**Latin Name:**  
**Reference Sample:**

*Ginkgo biloba* L. [Ginkgoaceae]  
Lane 2(3µl) (X15209CRB), Lane 3(1.5µl) (X15209CRB) *Ginkgo biloba* (leaf); Lane 12(3µl) (AGK02609SWH1), Lane 13(1.5µl) (AGK02609SWH1) *Sophora japonica* (flower); Lane 14(3µl) (AGK02609SWH2), Lane 15(1.5µl) (AGK02609SWH2) *Sophora japonica* (fruit); held at Alkemist Labs, Garden Grove, CA.

**Analyst:**  
**Sample Preparation:**  
**Stationary Phase:**  
**Mobile Phase:**  
**Detection:**

A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 128709  
0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min  
Silica gel 60, HPTLC plates  
ethyl acetate: Formic Acid: Acetic acid: Water [10/0.9/0.9/2]  
(1) UV 366 nm

**Reference Standard:**

(2) Natural Product + Polyethylene Glycol, 366nm (Reich, E., 2007)  
Lane 16(3µl) *Ginkgo Biloba* Extract (, ), Ethyl alcohol (6901001, VWR); Lane 1(3µl) Rutin (A0348926, ACR), Methanol (0000239114, VWR)

**Reference Source:**

Method developed by Alkemist Labs  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample CTLA 13263 (CTLA 13263) Lanes 2, 3, 12, 13, 14, 15 are the reference samples used for comparison. This test sample, CTLA 13263 (CTLA 13263), is consistent with the chromatographic profile of the reference samples of *Ginkgo biloba* used above. **This test sample CTLA 13263 (CTLA 13263) has characteristics of a customized extract derived from *Ginkgo biloba* leaf.**

**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.



Khanh Tran  
HPTLC, R&D Technical Supervisor

Digitally signed by Khanh Tran  
DN: cn=Khanh Tran, o=ou,  
email=Khanh@alkemist.com,  
c=US  
Date: 2019.12.23 14:12:37  
-08'00'  
Adobe Acrobat version:  
2019.021.20061

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

Report Date: 12/20/19

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 CTLA 13263.

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. Includes for internal use only.

Code: FV3358

Manuf. date: 11/2020

Camaçari: 03/12/2020

Retest. date: 11/2022

Product: SerinAid 70P

Sinonym: Phosphatidylserine 70% Powder

Formula: =====

Batch N°: 20B0348

Tests	Quality specifications	Results	Test Method
Description	Light-yellow to yellow powder	Conform	Visual
Identification	TLC or NMR (Positive)	Conform	P31 NMR/ITF Chemical
Phospholipids	Phosphatidylserine:	NLT 70%	72
	Phosphatidylcholine:	0 - 6%	2
	Phosphatidylethanolamine:	0 - 6%	2
	Phosphatidylinositol:	0 - 4%	1
			P31 NMR/ITF Chemical
Peroxide Value	Not more than 5	0	Iodide Titration
Moisture (K.F.)	Not more than 1.5%	0.6	Karl Fischer
Microbial Contamination	Total Plate Count:	NMT 1000 CFU/g	50
	Yeast and Moulds:	NMT 100 CFU/g	LT 100
	Coliforms:	Negative/g	Negative
	Staphylococcus aureus:	Negative/g	Negative
	Escherichia coli:	Negative/g	Negative
	Salmonella:	Negative/10g	Negative

**Manufacturer Name & Address:**

ITF Chemical Ltda.  
Rua Beta, 574  
Area Industrial Norte, COPEC, 42816-090  
Camaçari, Bahia  
Brazil  
P: 001.55.71.3634.2940  
F: 001.55.71.3634.2902

**USA Business Unit & Address:**

Chemi Nutra  
11100 Metric Blvd  
Suite 200D Austin,  
TX 78758  
USA

DATE

03.12.2020

QUALITY CONTROL

ANA

ANA PAULA ALVES



Contract **TESTING** Laboratories

OF AMERICA

# Certificate of Analysis

## Sample Information

CTLA ID: 29195  
Date Received: 3/22/2021  
Sample Name: 10619 SerinAid® Phosphatidyl Serine 70%  
Lot Number: 34176  
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	>95	%

3/24/2021

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: 65459  
Date Received: 1/4/2023  
Sample Name: 10619 SerinAid® Phosphatidyl Serine 70%  
Lot Number: 34176  
Customer: Origin Nutraceutical

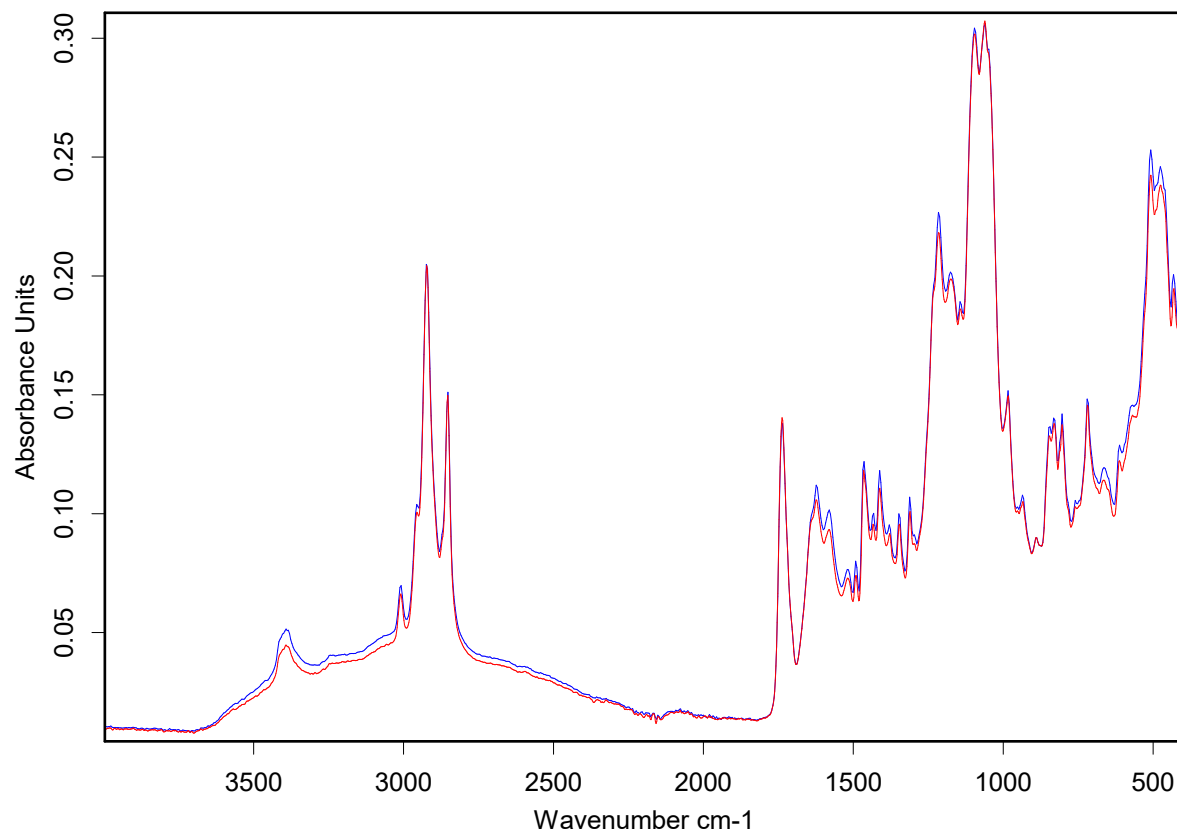
Analysis	Method	MDL Specification	Result	Units
Phosphatidyl Serine	HPLC	0.002 Report	98.3	%
Phosphatidylserine	NMR	Report	Attached	

2/28/2023

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. This document is not to be altered or reproduced except by the original authorizing body (CTLA)



Product Number	ON 10619 SerinAida Phosphatidyl Serine (341
Entry No.	2415
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
	980	ON 10619 SerinAida Phosphatidyl Serine (34176) Standard 3			

Color	File	Path	Spectrum Type
	29195-ON 10619 SerinAida Phosphatidyl Serine (34176).0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

**Certificate of Analysis**

CTLA14910-1

Steelyard Analytics, Inc. | 704 Quince Orchard Road Suite 130 | Gaithersburg, MD 20878 (USA)



Contract Testing Laboratories of America  
 Kimberly Nuttall  
 151 E. 3450 N.  
 Spanish Fork, UT 84660  
 United States

Phone: +1 (240) 398-5380  
 E-Mail: info@steelyardanalytics.com

<b>Sample Ident.:</b>	<b>CTLA65459</b>	<b>Batch/Lot:</b>	<b>N/A</b>
<b>Steelyard Code:</b>	<b>CTLA14910-1</b>	<b>Arrival:</b>	<b>Feb 22nd, 2023</b>
Analysis method:	Quantitative <sup>31</sup> P-NMR Spectroscopy		
Instrument:	Bruker Avance III HD 600 MHz NMR spectrometer with automated sample changer and cBBO cryoprobe		
Internal standard:	Triphenyl phosphate (TPP, Tokyo Chemical Industry, Tokyo (J); Art.-Nr. P0272; RI 5-4)		
Content [%]:	100.0	MW [g/mol]:	326.29

TPP (5 - 4)	Integral	Molecular weight [g/Mol]	mMol	Initial weight [mg]	Content [%]	Number P
Internal Standard	19.94	326.29	0.0615	20.07	100.0	1
Test item		lecithin		300.13		1
Phospholipid	Integral	Molecular Weight [g/Mol]	mMol	Content [mg]	Weight-%	Mol-%
PC	2.22	770.0	0.0068	5.2636	1.75	1.89
2-LPC	0.48	515.0	0.0015	0.7626	0.25	0.41
PS-Na	81.95	797.2	0.2528	201.5291	67.15	69.98
LPS	2.54	517.0	0.0078	4.0429	1.35	2.16
PE	2.24	725.0	0.0069	5.0074	1.67	1.91
LPE	0.91	470.0	0.0028	1.3223	0.44	0.78
APE	3.53	990.0	0.0109	10.7681	3.59	3.01
PG	0.38	758.0	0.0012	0.8862	0.30	0.32
DPG	2.47	682.5	0.0076	5.2086	1.74	2.11
PA	14.23	685.0	0.0439	30.0689	10.02	12.15
LPA	1.45	430.0	0.0045	1.9233	0.64	1.24
Other	4.71	770.0	0.0145	11.1962	3.73	4.03
Sum	117.10		0.3612	277.98	92.62	100.00
Phosphorus			0.3612	11.19	3.73	
Measurement				A	Balance	XP205
#NV					Mettler-Toledo	XP205

## Annotations:

- (\*) = not observed, no signal assignment
- The integral value may be equivalent to a single value, a sum or a subtraction
- Phospholipids that are not detected/have a value of "0" are filtered out and do not appear in the individual list
- Integrals of phospholipid signals not assigned are recorded as other or other GPL

## Steelyard Analytics, Inc. Electronic Signature:

Prepared by:	The result refers exclusively to the test item CTLA14910-1 analyzed by Steelyard Analytics, Inc. The assessment of the plausibility of this result is the responsibility of the customer.
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The Certificate is valid by electronic signature. Unauthorized copying or changing of contents and images is not permitted. Any misuse will be prosecuted.



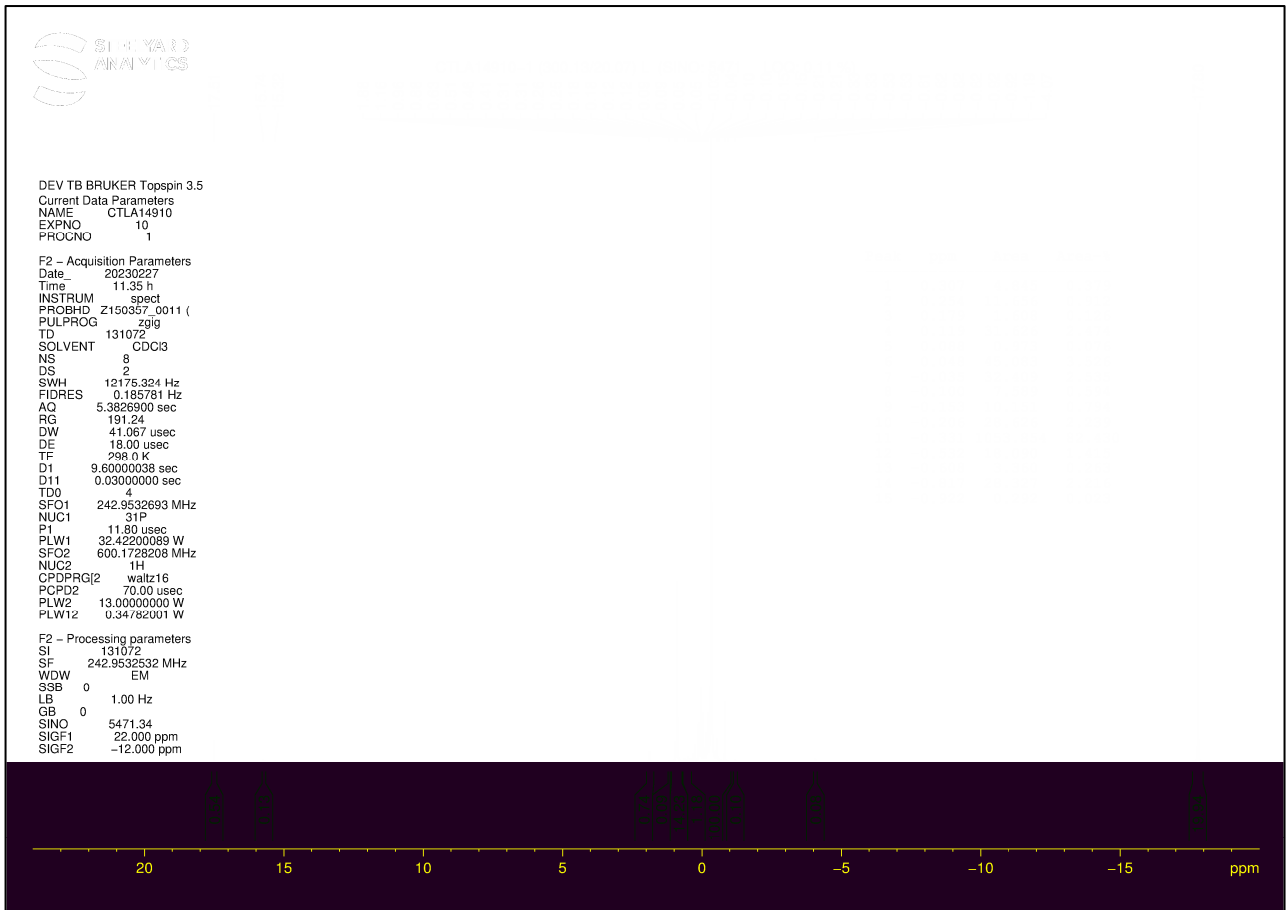


Fig. 1 <sup>31</sup>P-NMR spectrum of test item CTLA14910-1



creative  
compounds

## Certificate of Analysis

Product Name:	R-(+)-Lipoic Acid Sodium Salt
Batch Number:	RALA.N.2109111
Manufacturing Date:	September, 2021
Re-Test Date:	September, 2023
Country of Origin:	China

Item	Standard	Result	Method
Appearance	Off-white to light yellow powder	Off-white to light yellow powder	Organoleptic
Melting Point	230°C ~ 250°C	230°C ~ 250°C	USP
Solubility (H <sub>2</sub> O)	Soluble in Water	Soluble in Water	USP
Specific Rotation	+85° ~ +105°	+99.7°	USP
Loss on Drying	3.0% max	1.0%	USP
Heavy Metals	10 ppm max	<10 ppm	USP
Total Microbial Count	1,000 per/g max	<10 per/g	USP
Molds & Yeasts	100 per/g max	<10 per/g	USP
E. Coli	Negative	Negative	USP
Salmonella	Negative	Negative	USP
Particle Size	100% through 20 mesh 80% through 80 mesh	100% through 20 mesh 80% through 80 mesh	USP
Assay			
R-Alpha Lipoic Acid	80.0% min	81.6%	HPLC
R-(+)-Lipoic Acid Sodium	99.0% min	99.8%	

**Conclusion:** The above results meet the factory standard

\*The information contained herein is, to the best of our knowledge, correct. The data outlined and the statements are intended only as a source of information. No warranties, expressed or implied, are made. On the basis of this information, it is suggested that you evaluate the product on a laboratory scale prior to use in a finished product. The information contained herein should not be construed as permission for violation of patent right.

# Certificate of Analysis

## Sample Information

CTLA ID: 62918  
Date Received: 11/23/2022  
Sample Name: 10552 DRM R-ALA Sodium Salt  
Lot Number: 45947  
Customer: Origin Nutraceutical

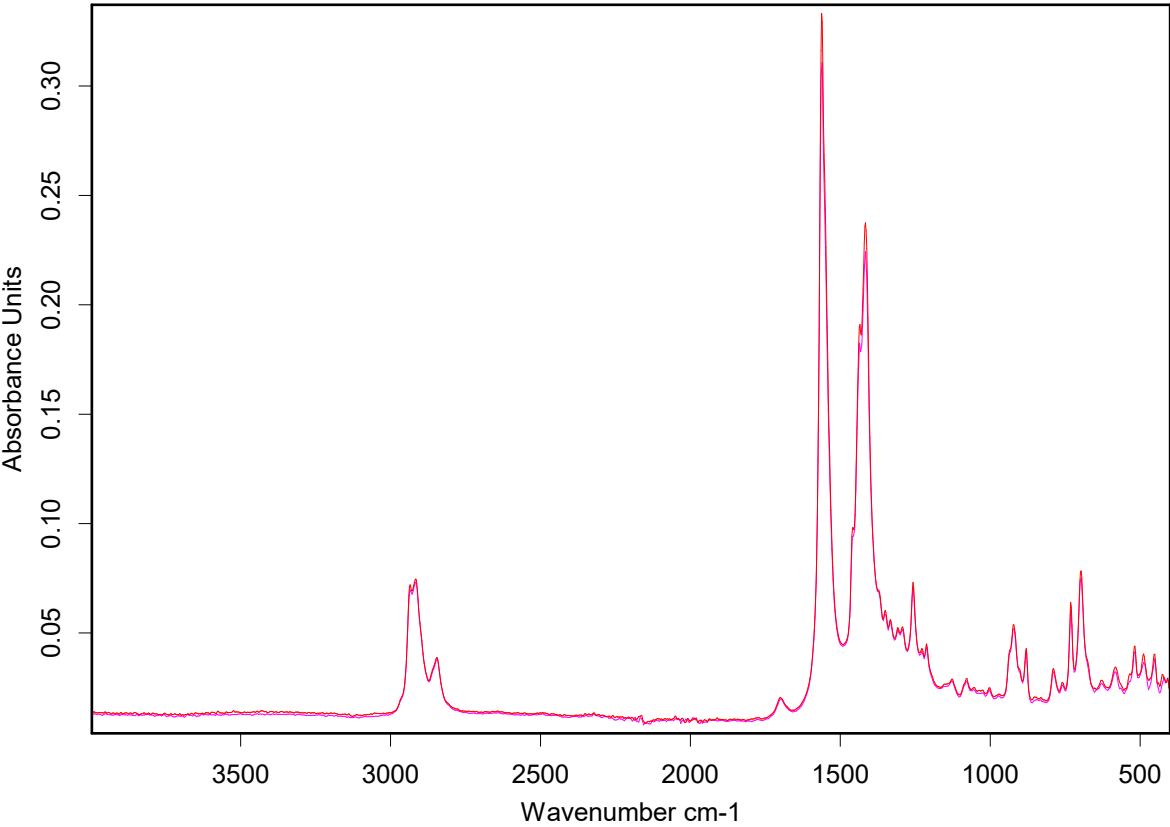
Analysis	Method	MDL	Specification	Result	Units
<b>ID, Rapid Complete Micro Combo</b>					
ID	FTIR		Report	95.1	%
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
<b>Sodium</b>	ISE	0.00000	≥99% 5	96.266 *	%
<b>R-Alpha Lipoic Acid (RALA)</b>	HPLC		Report	88.430	%

12/8/2022

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 10552 DRM R-ALA Sodium Salt (45947) S
Entry No.	3012
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
	985	ON 10552 DRM R-ALA Sodium Salt (45947) Standard 2			

Color	File	Path	Spectrum Type
	65518-ON 10552 R-ALA Sodium Salt (45947).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum