



THRIVOUS

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

CERTIFICATE OF ANALYSIS AND QUALITY

Product	Clarity Daily Nootropic
SKU	CLARITY
Barcode	866033000208
Formula	4
Date	6 April 2023

Label

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

Use: Take 2 capsules up to 2 times daily with meals, for a total of 2 to 4 capsules daily.

Storage: Keep cool and dry, away from children.

Synapsa

Synapsa is a trademark of Soho Floridis International Pty Ltd., exclusively licensed in the United States to PLT Health Solutions, Inc.

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.



THRIVOUS

CLARITY DAILY NOOTROPIC

Formula 4

Enhances Memory, Focus, and Mood,
and Supports Healthy Brain Function*

Dietary Supplement
60 CAPSULES

Supplement Facts

Serving Size 2 Capsules
Servings Per Container 30

Amount Per Serving	% Daily Value
Thiamin (Thiamin Hydrochloride) 25 mg	2080%
Riboflavin (Riboflavin 5 Phosphate) 25 mg	1920%
Niacin (Nicotinamide) 100 mg	620%
Vitamin B6 (Pyridoxal 5 Phosphate) 25 mg	1470%
Folate (L 5 Methyltetrahydrofolate) 400 mcg	100%
Vitamin B12 (MeCbl and AdoCbl) 240 mcg	10000%
Biotin (D Biotin) 300 mcg	1000%
Pantothenic Acid (D Calcium Pantothenate) 100 mg	2000%
Zinc (from Zinc Picolinate) 11 mg	100%

Bacopa Monnieri Extract (Synapsa® 55% Bacoside) 320 mg	†
L Theanine 200 mg	†
Rhodiola Rosea Root Extract (2% Salidroside) 170 mg	†

† Daily Value Not Established

Other Ingredients: Cellulose, Canola Oil, Stearic Acid, Silicon Dioxide
THRIVOUS, PO BOX 4078 #73216, SLC UT 84110 USA

Certifications
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 Canola Oil Certificate of Analysis from Third-Party Testing
Excipient Silicon Dioxide Certificate of Analysis from Supplier
Excipient Silicon Dioxide 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
Bacopa Monnieri Certificate of Analysis from Supplier
Bacopa Monnieri Certificate of Analysis from Third-Party Testing
L Theanine Certificate of Analysis from Supplier
L Theanine Certificate of Analysis from Third-Party Testing
Rhodiola Rosea Certificate of Analysis from Supplier
Rhodiola Rosea Certificate of Analysis from Third-Party Testing
Vitamin B1 Thiamin Hydrochloride Certificate of Analysis from Supplier
Vitamin B1 Thiamin Hydrochloride Certificate of Analysis from Third-Party Testing

Vitamin B2 Riboflavin 5 Phosphate Certificate of Analysis from Supplier
Vitamin B2 Riboflavin 5 Phosphate Certificate of Analysis from Third-Party Testing
Vitamin B3 Nicotinamide Certificate of Analysis from Supplier
Vitamin B3 Nicotinamide Certificate of Analysis from Third-Party Testing
Vitamin B5 Calcium Pantothenate Certificate of Analysis from Supplier
Vitamin B5 Calcium Pantothenate Certificate of Analysis from Third-Party Testing
Vitamin B6 Pyridoxal 5 Phosphate Certificate of Analysis from Supplier
Vitamin B6 Pyridoxal 5 Phosphate Certificate of Analysis from Third-Party Testing
Vitamin B7 Biotin Certificate of Analysis from Supplier
Vitamin B7 Biotin Certificate of Analysis from Third-Party Testing
Vitamin B9 L 5 Methyltetrahydrofolate Certificate of Analysis from Supplier
Vitamin B9 L 5 Methyltetrahydrofolate Certificate of Analysis from Third-Party Testing
Vitamin B12 Adenosylcobalamin Certificate of Analysis from Supplier
Vitamin B12 Adenosylcobalamin Certificate of Analysis from Third-Party Testing
Vitamin B12 Methylcobalamin Certificate of Analysis from Supplier
Vitamin B12 Methylcobalamin Certificate of Analysis from Third-Party Testing
Zinc Picolinate Certificate of Analysis from Supplier
Zinc Picolinate Certificate of Analysis from Third-Party Testing



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

6 April 2023

RE: Letter of Guarantee for Thrivous Clarity Daily Nootropic

To whom it may concern,

The undersigned, Lincoln Cannon LLC DBA Thrivous (“Thrivous”), hereby guarantees as follows regarding Clarity Daily 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

A handwritten signature in black ink, appearing to be 'Lincoln Cannon', written over a horizontal line.

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

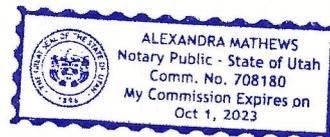
Division of Regulatory Services

State of Utah, County of Salt Lake.

On this date **DEC 20 2021** before me, the notary, personally appeared

, 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

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

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:*

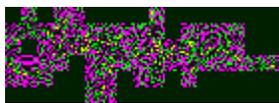
ISO/IEC 17025:2017

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*



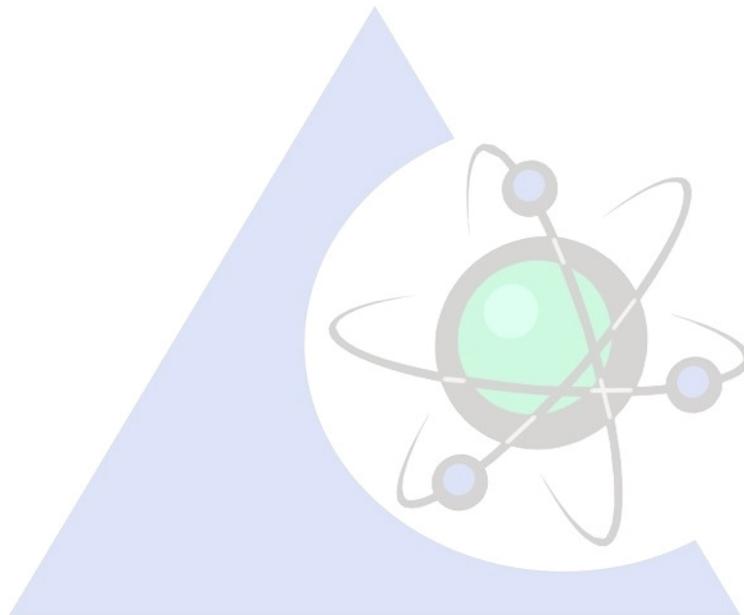
Certificate of Accreditation: Supplement

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 ^F	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^F would mean that the laboratory performs this testing at its fixed location.





Certificate of Analysis

CTLA ID	69607	Sample Name	Clarity Daily Nootropic
Customer	Thrivous	Lot Number	2306101
Date Received	3/9/2023	Date Complete	3/20/2023
Customer Address:	PO Box 4078 #73216, Salt Lake City, UT. 84110		

ANALYSIS	SPECIFICATION	RESULT	METHOD	MDL	UNITS
Complete Rapid Micro					
Total Plate Count	Report	<100	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
Heavy Metal					
Arsenic	Report	0.213	USP <2232>	0.001	ppm
Cadmium	Report	0.009	USP <2232>	0.001	ppm
Mercury	Report	<0.001	USP <2232>	0.001	ppm
Lead	Report	<0.001	USP <2232>	0.001	ppm
Thiamin (Thiamin Hydrochloride)	Report	25	By Input		mg
Riboflavin (Riboflavin 5 Phosohate)	Report	25	By Input		mg
Niacin (Nicotinaminde)	Report	100	By Input		mg
Vitamin B6 (Pyridoxal 5 Phosphate)	Report	25	By Input		mg
Folate (L-5 Methyltetrahydrofolate)	Report	400	By Input		mcg
Vitamin B12 (MeCbl and AdoCbl)	Report	240	By Input		mcg
Biotin(D Biotin)	Report	300	By Input		mcg
Pantothenic Acid (D Calcium Pantothenate)	Report	100	By Input		mg
Zinc (Zinc Picolinate)	Report	11	By Input		mg
Bacopa Monnieri Extract (Synapsa® 55% Bacoside)	Report	320	By Input		mg
Rhodiola Rosea Root Extract (2% Salidrosides)	Report	170	By Input		mg
Other ingredients: Cellulose, Canola Oil, Stearic Acid, Silcon Dioxide					

COA Note:

Approved By:

Date:

3/20/2023



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



Contract TESTING Laboratories

OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 69607
 Date Received: 3/9/2023
 Sample Name: 30054 Clarity Daily Nootropic
 Lot Number: 2306101
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
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
Heavy Metals				
Arsenic	USP <233>	0.001 Report	0.213	ppm
Cadmium	USP <233>	0.001 Report	0.009	ppm
Mercury	USP <233>	0.001 Report	<0.001	ppm
Lead	USP <233>	0.001 Report	<0.001	ppm
Amazon document fee		Report		

3/20/2023

DATE

Quality Manager

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456 Silver Creek Industrial Drive, TECUMSEH, ONTARIO N8N 4Y3 Tel:(519) 727-4618; Fax:(519)727-4619

CERTIFICATE OF ANALYSIS EMPTY HARD CAPSULES OF VEGETABLE ORIGIN

LOT No.: <u>K2207001182</u>	PRODUCT CODE: <u>KC0-1000</u>	SIZE: <u>0</u>
CAPSULE COLOR: <u>CAP - NATURAL 1-0K</u>	/ BODY - <u>NATURAL 1-0K</u>	
PRINT: <u>N/A</u>	TEXT: <u>N/A</u>	INK COLOR: <u>N/A</u>

CapsCanada® capsules are preservative free and manufactured under strict cGMP conditions. All empty capsules are manufactured from pharmaceutical cellulose ethers, which are polymers derived from vegetable sources. Cellulose used to manufacture empty hard capsules of vegetable origin by CapsCanada® meet the current USP/NF and EP requirements. CapsCanada® may blend pharmaceutical cellulose.

(% Ingredients to % Cellulose)

Cap	%	Body	%

Due to the nature of the raw materials and technology improvements, the color formulation represents target values only. The actual values may differ slightly to ensure the consistency of the finished product.

Date of Manufacture: 2022-07 Expiration Date: 2027-07

CRITERIA	METHOD / REFERENCE	SPECIFICATIONS	RESULTS
ORGANOLEPTIC			
Physical Form	Internal / Visual	Clean empty capsule shells meeting the specified color and size	Passes
Color		Meets the specified requirements	Passes
Odor	Internal / Organoleptic	Typical - Cellulose	Passes
PHYSICAL			
Visual Defects	Internal / Visual	Conforms to the established AQLs	Passes
Average Capsule Weight	Internal	101.0 - 113.0 mg	107.0
Loss on drying	USP	4.0% - 8.0%	4.5
Disintegration	USP	N.M.T. 15 min	Passes
ANALYTICAL			
Identification of HPMC	USP	Meets USP Requirements	Passes
Residue on Ignition *	USP	N.M.T. 1.5% Transparent capsules	Passes
		N.M.T. 6.0% colored capsules	
Arsenic *	USP (External)	N.M.T. 0.8 ppm	Passes
Cadmium *	USP (External)	N.M.T. 0.5 ppm	Passes
Lead *	USP (External)	N.M.T. 0.5 ppm	Passes
Mercury *	USP (External)	N.M.T. 0.1 ppm	Passes
Cobalt *	USP (External)	N.M.T. 5.0 ppm	Passes
Vanadium *	USP (External)	N.M.T. 10.0 ppm	Passes
Nickel *	USP (External)	N.M.T. 20.0 ppm	Passes
Total Aerobic Microbial Count	USP	N.M.T. 1000 cfu/g	<10
Total Yeasts and Molds count	USP	N.M.T. 100 cfu/g	<10
Salmonella	USP	Absence in 10 g	Absence
Escherichia Coli	USP	Absence in 1g	Absence
Staphylococcus aureus	USP	Absence in 1g	Absence
Pseudomonas aeruginosa	USP	Absence in 1g	Absence

Capsules are certified as Kosher and Halal.

Storage Conditions: Temperature: 15°C - 30°C Relative Humidity: 35% - 70% RH

*Reduced Frequency Testing.

N.M.T. = No More Than



 Quality Control

Date: 2022-08-10

EDITION No: 1

Code: DCC-032E (Effective from July 1st, 2020)

Version 4

MANUFACTURER ADDRESS: VIA 40 85-48 BARRANQUILLA COLOMBIA
TELEPHONE (57-5)330-4100 FAX (57-5)330-4105

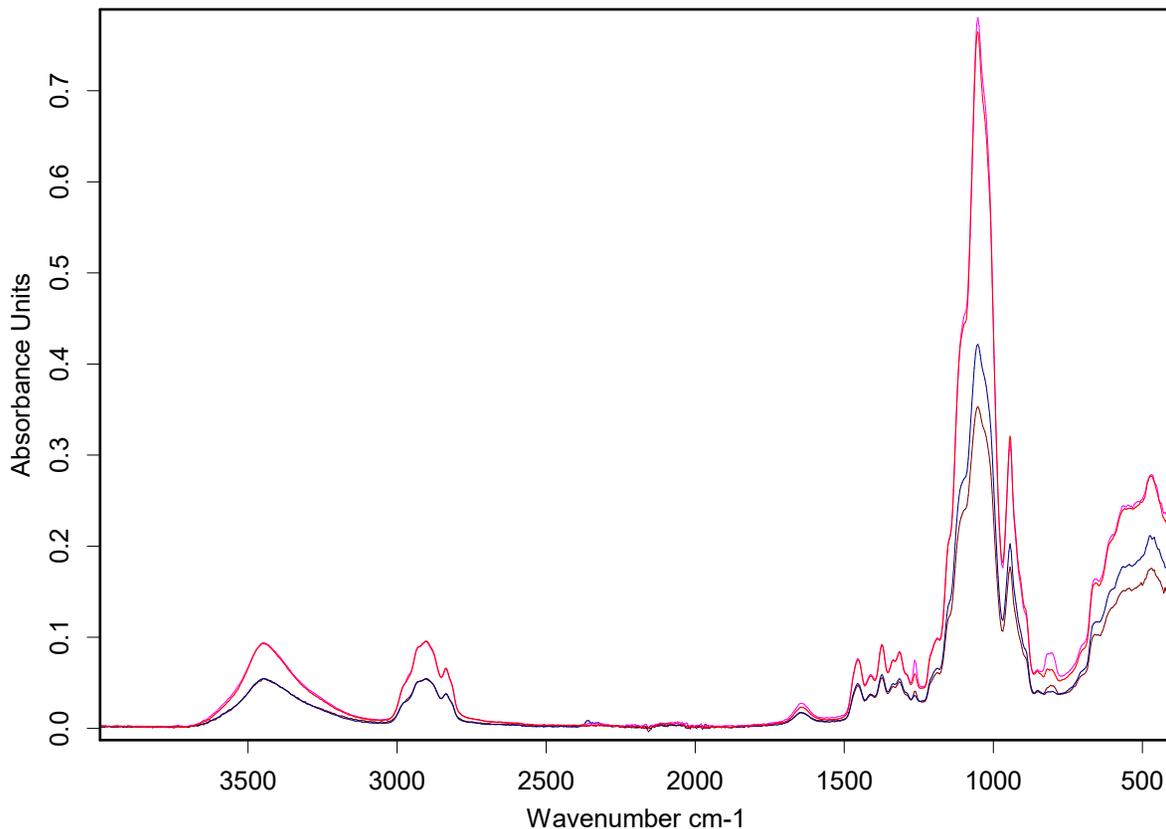
CTLA ID: 61533
 Date Received: 11/1/2022
 Sample Name: 10449 Capsule, HPMC, 0, Clear, K-Cup
 Lot Number: 45148
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
Total Plate Count	USP <2021>	100 Report	900	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

11/3/2022
 DATE


 Quality Manager

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Product Number	10449 OK Capsule HPMC 1812 Standard 2
Entry No.	647
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	10449 CPS O K-Cap HPMC 12092 Standard 3			
	915	10449 O-K-Cap HPMC 1004 Standard 1			
	914	10449 OK Capsule HPMC 1812 Standard 2			

Color	File	Path	Spectrum Type
	65289-ON 10449 CPS Capsule HPMC 0 Clear K-Cap (45148)	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

CTLA ID: 61532
 Date Received: 11/1/2022
 Sample Name: 10031 Canola Oil
 Lot Number: 45134
 Customer: Origin Nutraceutical

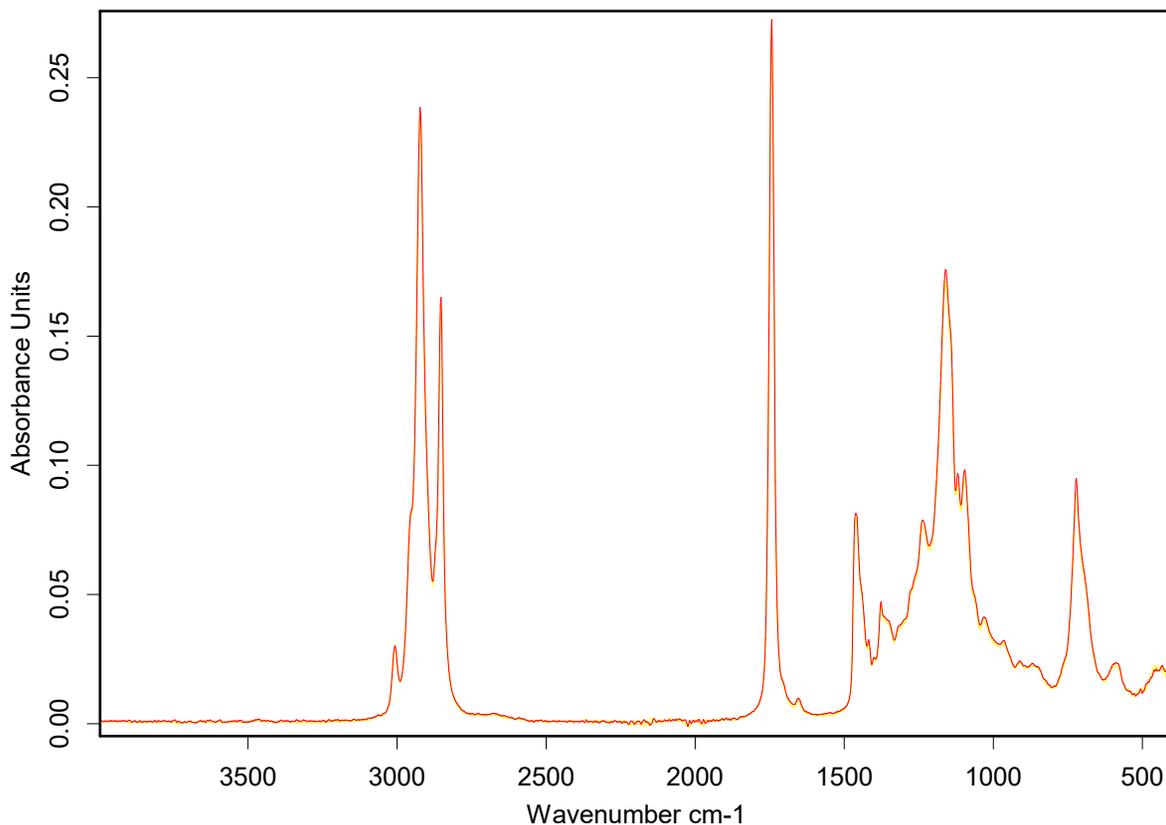
Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	98.8	%
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g

11/3/2022
DATE



Quality Manager

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Product Number	10031 LIQ Canola Oil 13099 Standard 2
Entry No.	1499
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
	988	10031 LIQ Canola Oil 13099 Standard 2			

Color	File	Path	Spectrum Type
	61532-ON 10031 LIQ Canola Oil (45134).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Evonik Corporation - 299 Jefferson Road - Parsippany, NJ 07054-0677

VIVION INC. - VERNON
 3000 EAST 46TH STREET
 VERNON CA 90058

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

Inspection Certificate 3.1 according to EN 10204	
Date	Nov 1, 2021
Delivery Number / Item	3007838922 / 000001
Order Number / Item	2004842408 / 000001
Date	Aug 23, 2021
Silica	
Contact Person	Martinez Jasmine
Mail	jasmine.martinez@evonik.com
Customer no.	7250020313
Fax	+16505952094
Your purchase order	4700100907
Date	Aug 23, 2021

Product	SIPERNAT® 22 S 15 x 11.34 KG / 25.00 lbs Paper Bag 5M1 / Hardwood pallet
Material	99002421
Customer material no.	25920-25LB / 3919202 110 01M
Quantity	810 BAG
Batch	311092711
Production date	Sep 27, 2021
Best before	Sep 26, 2023
Delivery date	Oct 28, 2021
Spec.No.	4529 / 1; K00

Delivery date = Estimated time of dispatch / departure

Property	Test method	Unit	Value	Specification	
				Min.	Max.
pH value, 5% in water	following ISO 787-9		6.5	6.0	8.0
Loss on drying, 2h at 105°C	per ISO 787-2	%	5.1		7.0
Sieve residue, 45 µm, spray	fol. ISO 3262-19	%	< 0.1		1.5
BET Multipoint surface area N2	following ISO 9277	m ² /g	170	160	200
DOA absorption Orig subst.	ISO 19246	ml/100 g	239	215	255
Part. Size d50, Coulter LS230	fol. ISO 13320-1	µm	11.7	10.0	14.0



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: 65167

Address: 151 E 3450 N
Spanish Fork, UT 84660

Sample Type:

Date Recieved: 09/23/2022

Sample Name: 10030 EXC Silicon Dioxide,
Precipitated

Date Completed: 09/28/2022

Lot Number: 41097

COA Notes:

Chemistry Category

FTIR Spectra

Test	Method	MDL	Specification	Result	Units
FTIR Spectra	FTIR		Report	96.3	

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Microbiology Category

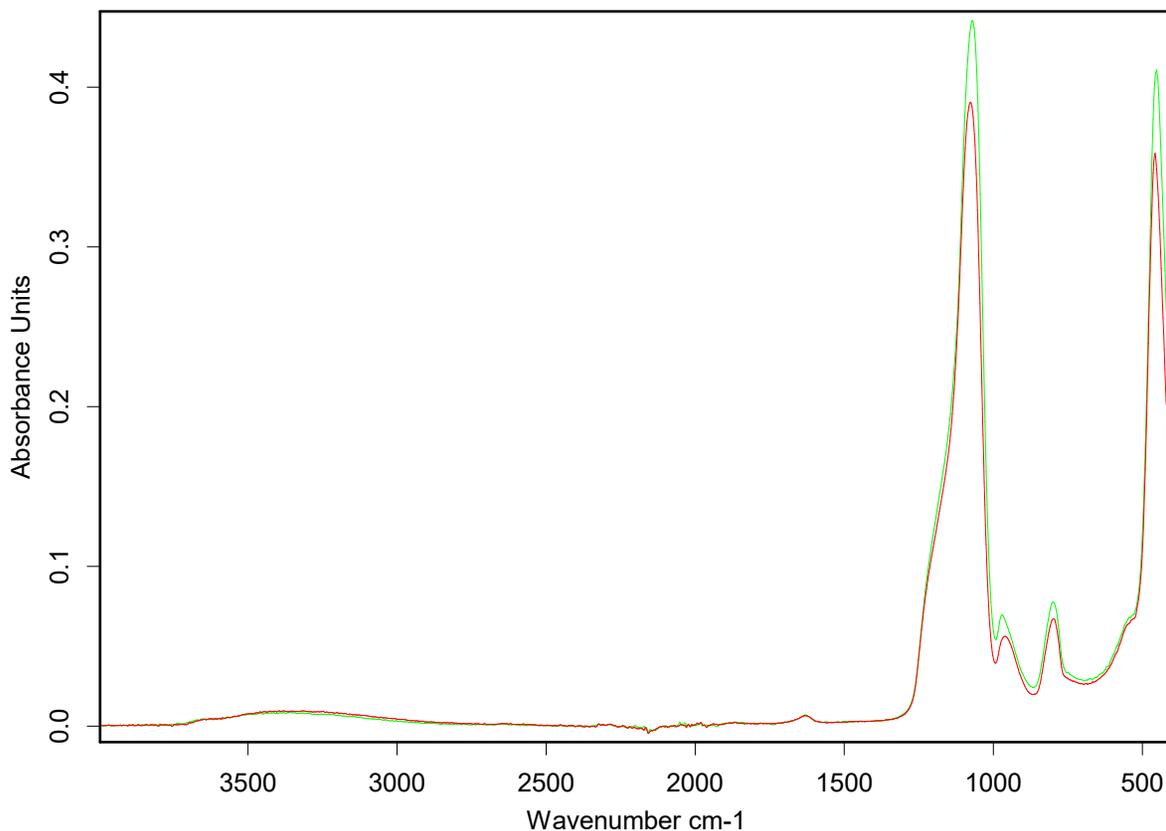
Rapid Complete Micro

Test	Method	MDL	Specification	Result	Units
Total Aerobic Microbial Count (TPC)	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2022>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <2022>		Report	Absent	
<i>Salmonella</i>	USP <2022>		Report	Absent	
<i>Staphylococcus aureus</i>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g



Brescia Eppley
Quality Assurance Specialist

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Product Number	10030 Silicon Dioxide Precipitation 63211 Sta
Entry No.	45
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
	963	10030 Silicon Dioxide Precipitation 63211 Standard 1			

Color	File	Path	Spectrum Type
	65167-ON 10030 Silicon Dioxide (410907).0	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



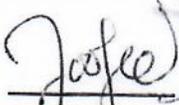
Proudly Supplied By: Vivion, Inc.
929 Bransten Road, San Carlos, CA 94070
Phone: (650) 595-3600, Fax: (650) 595-2094

DATE : 01/08/2018
 PRODUCT : STEARIC ACID VEG NF PWD
 QUANTITY : 20.0 METRIC TONS (1000 CARTON BOXES) P.O NO. : 15786
 LOT NO. : 251807 15786 106 COUNTRY OF ORIGIN : MALAYSIA
 MFG DATE : 25 JUL 2018 EXPIRE DATE : 24 JUL. 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:

Identification	NF Specification	Test Methods	Test Result
Appearance: Waxy, White Fined Powder	To Pass Test	NF	Pass
A (Freezing Point)	194 - 212	NF	208.5
B (Acid Value)	To Pass Test	NF	Pass
C (Retention Time Peaks)	Not more than 0.1%	NF	<0.01
Residue on Ignition (%)	Not more than 10 ppm	NF	<10
Heavy Metals ppm	0.5 ppm max		<0.05
Lead ppm	0.5 ppm max		<0.02
Arsenic ppm	1 ppm max		<0.02
Mercury ppm	Not more than 4.0	NF	0.33
Fat and Fixed Oils, Iodine Value USP <401>	Meets Requirements	NF	Pass
Color of Solution	Meets Requirements	NF	Pass
Acidity	53 - 59 Deg. C	NF	56.3
Freezing Point	No Solvents Used		None
Residual Solvents			
(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 ₁₂ / C ₁₄	3 %	- /	<0.1
C ₁₆	40 % Min		50.4
C ₁₈	40 % Min		49.3
C ₂₀	1 %		0.3
Combination of C ₁₆ & C ₁₈ in not less than 90%			
Mesh size	% Retained (Max)	% Retained	
200 Mesh	70.0	68.0	
100 Mesh	10.0	6.0	
50 Mesh	0	0	


 Major (Ret) 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

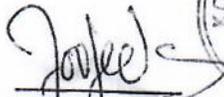
DATE : 01/08/2018
PRODUCT : STEARIC ACID VEG NF PWD
QUANTITY : 20.0 METRIC TONS (1000 CARTON BOXES)
LOT NO. : 251807 15786 106
MFG DATE : 25 JUL. 2018
FDA - FOOD FACILITY REGISTRATION NO. 19375870600

P O NO. : 15786
COUNTRY OF ORIGIN : MALAYSIA
EXPIRE DATE : 24 JUL. 2021

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


Mior (Rid) Foo See Nam
B.Sc. M.Sc. Chemical Engineering
Quality Control Officer



CTLA ID: 31025
 Date Received: 4/28/2021
 Sample Name: 10050 EXC Stearic Acid, Vegetable
 Lot Number: 12968
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
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
FTIR Spectra	FTIR		Report	Attached	

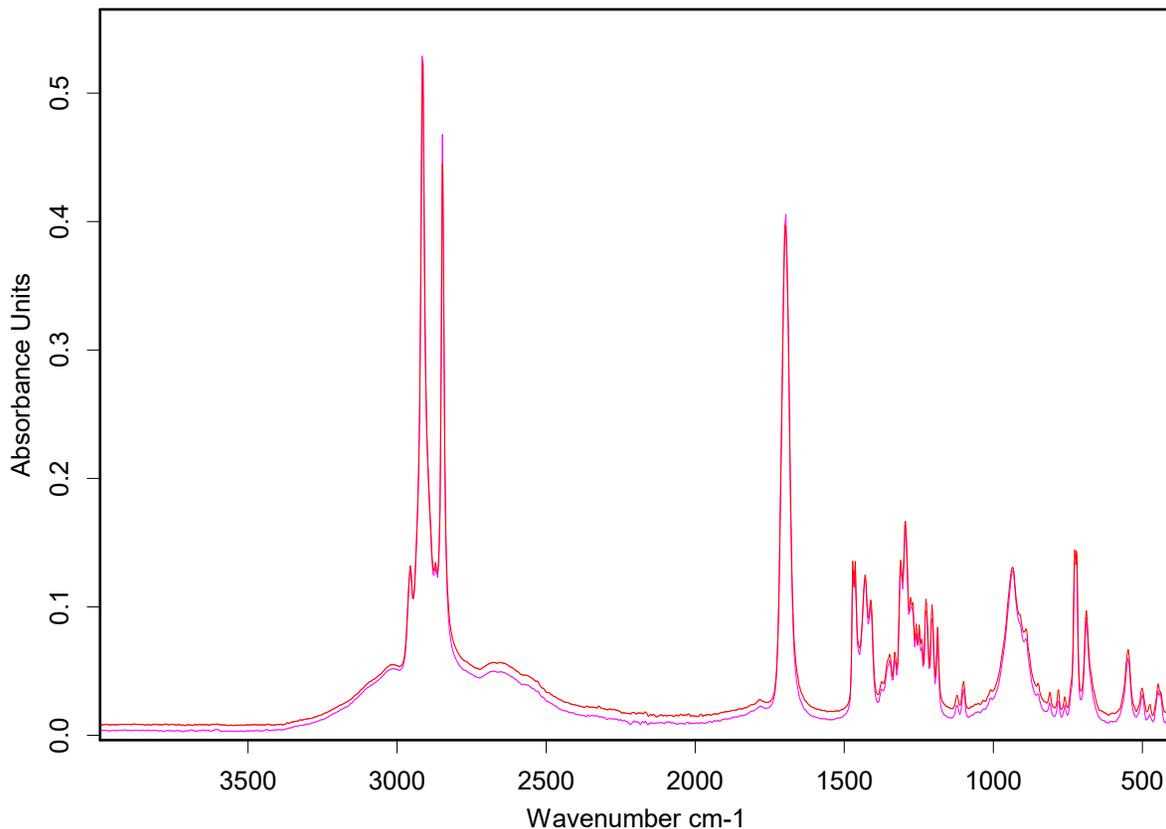
5/3/2021

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	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
	31025-ON 10050 Steurie Acid 12968.0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Product Name	: Synapsa®		
Batch Number	: N22030113	Customer Product Code	: LI/PLT/FBAMO-55A
Analytical Reference Number	: LN/AR/FP/22/0113	Product Code	: FBAMO-55A
Manufacturing Date	: March, 2022	Customer Name	: P.L.Thomas
Expiry Date	: February, 2024	Botanical Name	: <i>Bacopa monnieri</i>
Type of extract	: Powdered Extract	Country of origin	: India
Extraction medium	: Ethanol & Water	Part of the Plant	: Whole Plant
Date of Report	: March 18, 2022		-

S.No.	TEST PARAMETERS	RESULT	SPECIFICATION	METHOD CODE
1	Description	Greenish Brown Color dry Powder	Greenish Brown to Brown Color dry Powder	LI/QC/GP/STP-22A
2	Identification by HPTLC	Complies	To Comply	LI/QC/HT/STP-01A
3	Particle Size through 40 mesh	100%	NLT 95%	LI/QC/GP/STP-07A
4	Loss on Drying	1.31%	NMT 5%	LI/QC/GP/STP-01A
5	Alcohol Soluble Extractives	98.13%	NLT 90% on d/b	LI/QC/GP/STP-04A
6	Bulk Density	0.60 gm/ml	NLT 0.5 gm/ml	LI/QC/GP/STP-11B
7	Heavy Metals by ICP-MS			
	i) Lead	<0.25 ppm	NMT 0.5 ppm	LI/QC/ICP/STP-02A
	ii) Cadmium	<0.15 ppm	NMT 0.3 ppm	LI/QC/ICP/STP-02A
	iii) Mercury	<0.05 ppm	NMT 0.1 ppm	LI/QC/ICP/STP-02A
	iv) Arsenic	0.86 ppm	NMT 2.0 ppm	LI/QC/ICP/STP-02A
8	Residual Solvent By GC-HS			
	i) Ethanol	118 ppm	NMT 500 ppm	LI/QC/GC/STP-02A
	ii) Ethyl acetate	Nil	-	LI/QC/GC/STP-04A
9	Pesticide residues	Complies*	To Comply as per USP <565>	USP <561>**
10	Assay			
	i) Total Bacosides By Spectrophotometric method	62.41%	NLT 55.0% on d/b	LI/QC/SM/STP-01A
	ii) Bacoside A by HPLC (Bacoside A3, Bacopaside II, Bacoside X, Bacopasaponin C)	9.82%	NLT 8.0%	LI/QC/HL/STP-10A

Product Name: Synapsa®

Batch Number: N22030113

11	Microbiological Parameters			
	i) Total Aerobic Microbial Count	<100 CfU/gm	NMT 3,000 CfU/gm	LI/QC/MB/STP-01B
	ii) Total Yeast & Mold Count	<10 CfU/gm	NMT 100 CfU/gm	LI/QC/MB/STP-02B
	iii) E.Coli	Absent	Should be Absent/10 gm	LI/QC/MB/STP-03B
	iv) Salmonella	Absent	Should be Absent/10 gm	LI/QC/MB/STP-05B
	v) Staphylococcus aureus	Absent	Should be Absent/10 gm	LI/QC/MB/STP-07B
	vi) Pseudomonas aeruginosa	Absent	Should be Absent/10 gm	LI/QC/MB/STP-09B
	vii) Total coliforms	Negative	Negative/10 gm	LI/QC/MB/STP-10B

Remarks : The above material complies to the prescribed standards.

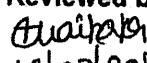
Storage conditions : Keep in tightly closed container free of excessive heat, moisture, light and air.

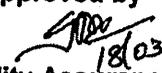
Packing details : 10 Kg Packed in 30 Lts HDPE drums with 24" X 36" X 350G double lined LDPE bags.

Note :

- i) *Skip lot testing once in a year.
- ii) **Testing is carried out in the contract testing Laboratory.
- iii) The Herbal extracts supplied by Laila Nutraceuticals are bulk dietary ingredients intended for further processing only and are not finished Dietary Supplement products in the form being sold*.

Prepared by 
18/03/2022

Reviewed by 
18/03/2022

Approved by 
18/03/2022
Quality Assurance

Certificate of Analysis

Sample Information

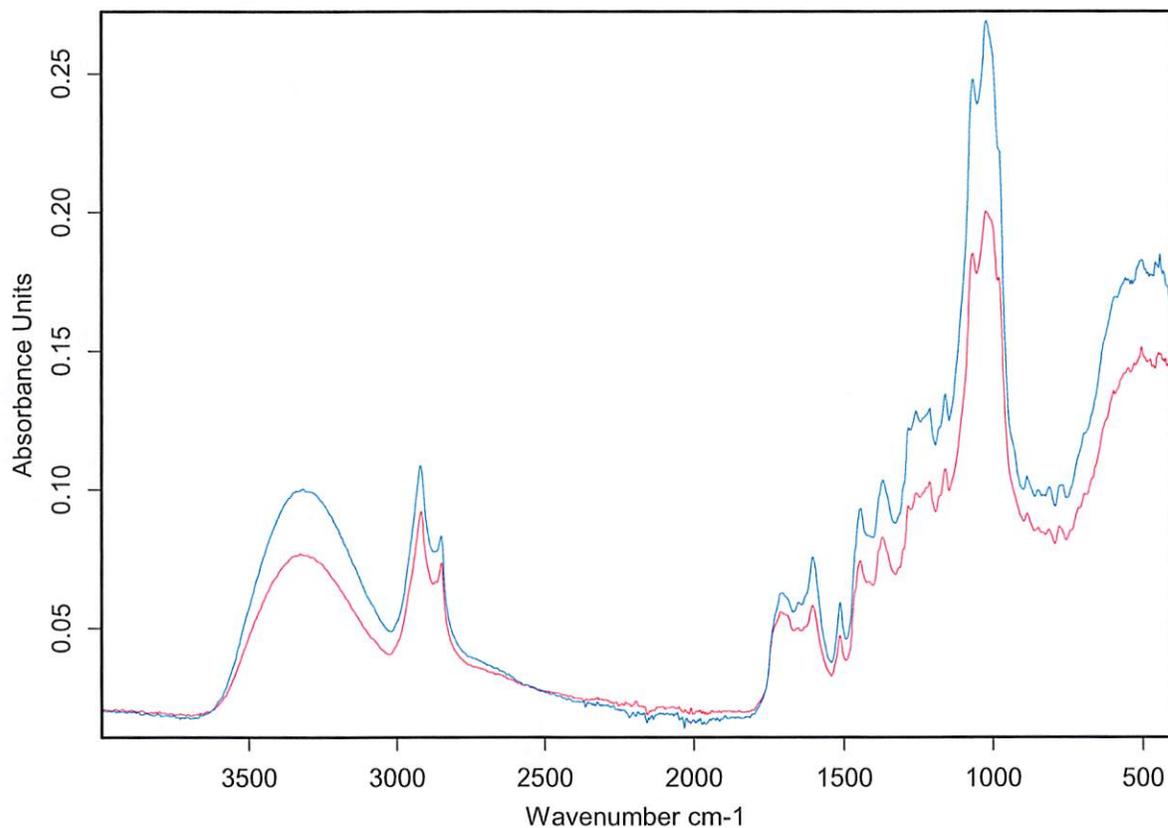
CTLA ID: 62443
 Date Received: 11/17/2022
 Sample Name: 10546 DRM Bacopa 55% Synapsa
 Lot Number: 45832
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Bacosides via UV-Vis	UV-Vis	0.0077	>55	60.125	%
FTIR Spectra	FTIR		Report	Attached	
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95	%
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
HPTLC <i>Bacopa monnieri</i>	HPTLC		Report	Pass	

12/14/2022
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	10546 Bacopa 55% Synapsa 5085 Standard 1
Entry No.	893
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
	950	10546 Bacopa 55% Synapsa 5085 Standard 1			

Color	File	Path	Spectrum Type
	62443-ON 10546 DRM Bacopa 55% Synapsa (45832).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

CTLA ID: 62443
 Date Received: 11/17/2022
 Sample Name: 10546 DRM Bacopa 55% Synapsa
 Lot Number: 45832
 Customer: Origin Nutraceutical

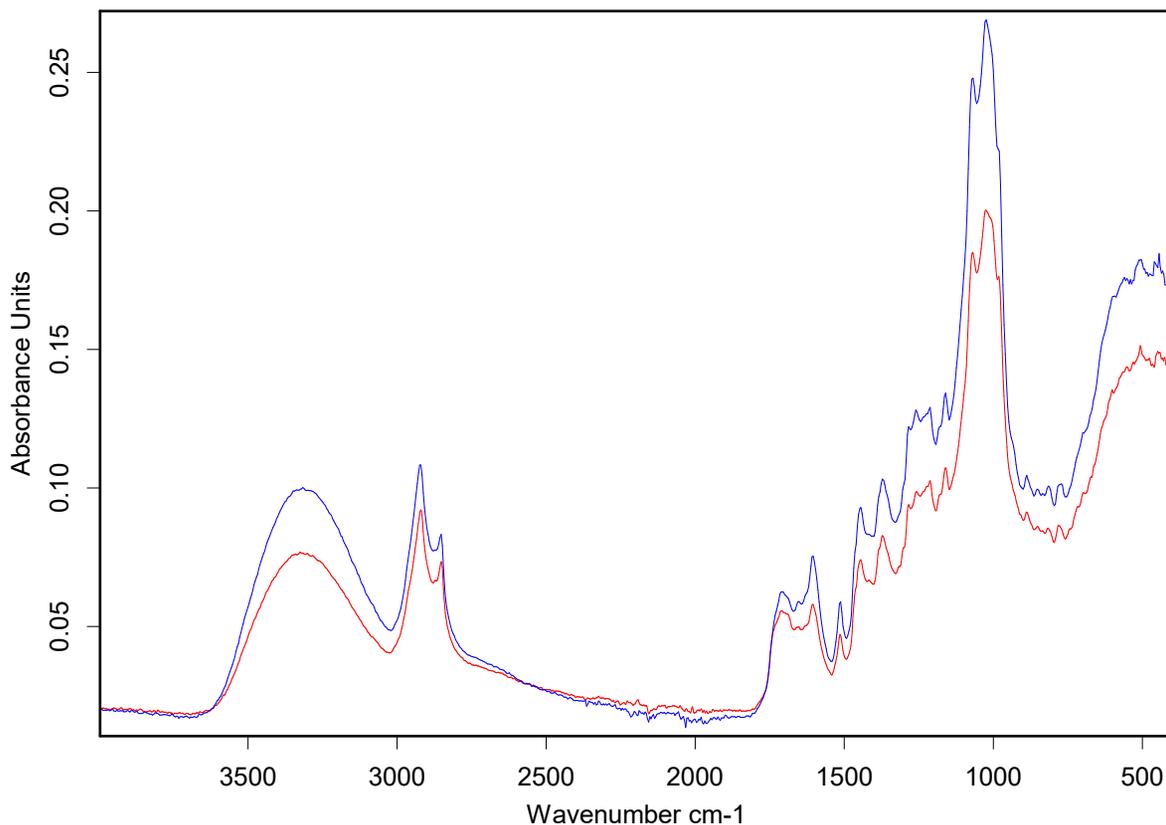
Analysis	Method	MDL	Specification	Result	Units
Bacosides via UV-Vis	UV-Vis	0.0077	>55	60.125	%
FTIR Spectra	FTIR		Report	Attached	
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95	%
Total Plate Count	USP <2021>	100	Report	100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
<i>E. coli</i>	USP <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
HPTLC Bacopa monnieri	HPTLC		Report	Pass	

12/14/2022
DATE



Quality Manager

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Product Number	10546 Bacopa 55% Synapsa 5085 Standard 1
Entry No.	893
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
	950	10546 Bacopa 55% Synapsa 5085 Standard 1			

Color	File	Path	Spectrum Type
	62443-ON 10546 DRM Bacopa 55% Synapsa (45832).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum



SICHUAN TONGSHENG AMINO ACID CO., LTD

Manufacture address: No.23 of Yongdinghe West Road, Tianyuan development zone, Deyang, Sichuan, China

Certification of Analysis

Product Name: L-Theanine

CAS#: 3081-61-6

Molecular Formula: $C_7H_{14}N_2O_3$

Molecular Weight: 174.2

Manufacture time: 2021-08-16

Batch No.: 010095-H2021082301

Testing time: 2021-08-23

Expiry time: 2024-08-15

Bulk Density: 0.30g/mL

Tapped Density: 0.46g/mL

Specification: (Enterprise Standard)

Item	Standard	Analysis data
Appearance	White crystalline powder	Conforms
Bulk density	>0.2g/ml	0.30g/ml
Particle size	90% through 80mesh	90% through 80mesh
Solubility (1.0g/20ml H ₂ O)	Clear Colorless	Conforms
Specific rotation(a) _{D20} (C=1, H ₂ O)	+7.5° to +8.5°	+7.85°
Assay	98.0-102.0%	99.56%
Melting Point (°C)	200°C to 210.0 °C	201.7-202.0°C
Chloride(Cl)	Not more than 0.02%	<0.02%
Heavy metals(Pb)	Not more than 10ppm	<10ppm
Iron(Fe)	Not more than 10ppm	<10ppm
Lead	Not more than 0.5ppm	Conforms
Hg	Not more than 1ppm	Conforms
Cadmium(Cd)	Not more than 1ppm	Conforms
Arsenic(As ₂ O ₃)	Not more than 1ppm	<1ppm
Total Plate Count	<1000 cfu /g	Conforms
Yeast& mould	Not more than 100cfu/g	Conforms
E.Coli	NMT30MPN/100h	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative
Loss on drying	Not more than 1.0%	0.22%
Residue on ignition	Not more than 0.2%	0.08%
PH	5.0-6.0	5.66
Conclusion	The product conforms to the standard, the method of test consult AJI	

Inspector: 刘玉苹

Manager: 肖宏林

Tel No.: 86-838-2274206

Fax No.: 86-838-2274207

Confirmed: 陈书娟
Sheet Made on: 29, 2021
Signature:



Certificate of Analysis

Sample Information

CTLA ID: 61531
 Date Received: 11/1/2022
 Sample Name: 10310 L-Theanine
 Lot Number: 44330 / 44331
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Rapid Complete Micro					
Total Plate Count	USP <2021>	100	Report	600	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
L-Theanine	HPLC	0.07676	Report	102.333	%

11/10/2022

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



Client Name: Origin Nutraceutical



Sample ID: 65036

Address: 151 E 3450 N Spanish Fork, UT 84660

Sample Type:

Date Received: 08/30/2022

Sample Name: 10310 DRM L-Theanine

Date Completed:

Lot Number: 44330

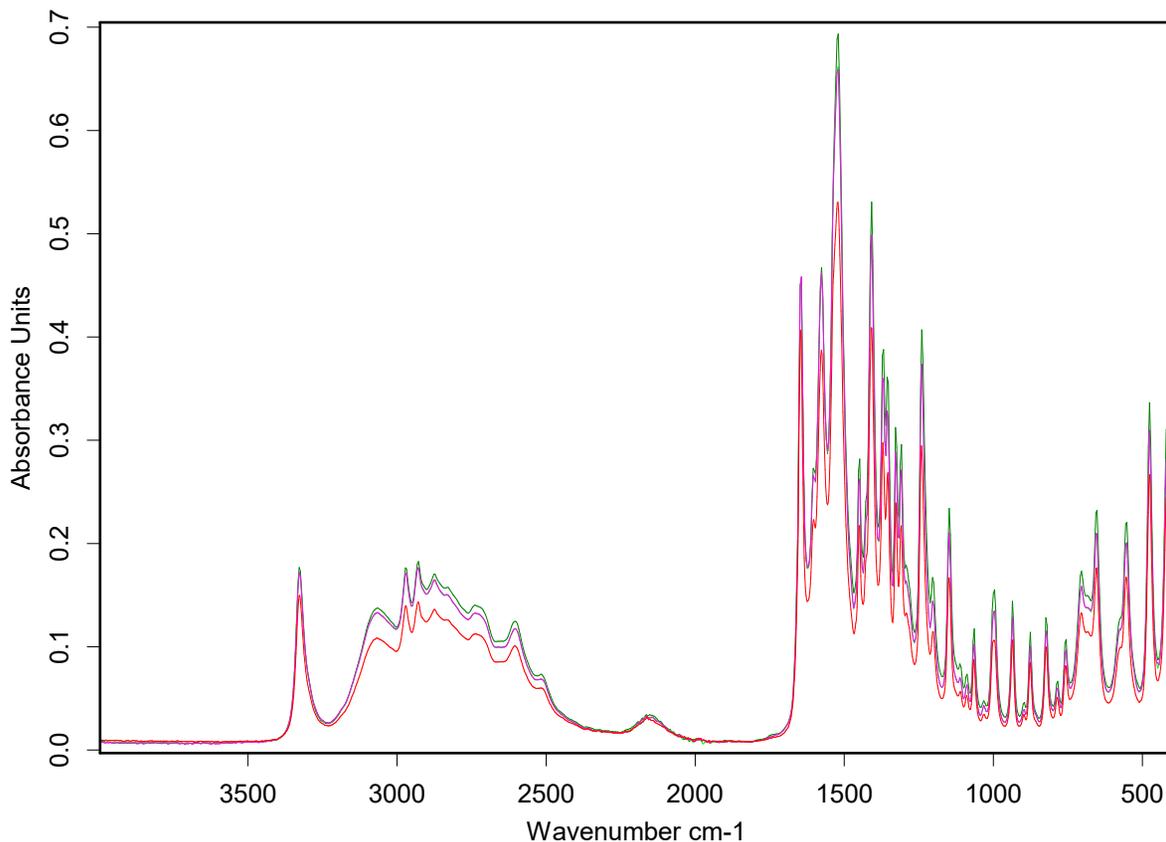
COA Notes:

Chemistry Category

ID

Test	Method	MDL	Specification	Result	Units
ID	FTIR		Report	97.3	%

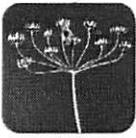
Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results 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	10310 L-Theanine 63011 Standard 1
Entry No.	293
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
	973	10310 L-Theanine 60756 Standard 2			
	973	10310 L-Theanine 62382 Standard 3			
	949	10310 L-Theanine 63011 Standard 1			

Color	File	Path	Spectrum Type
	65036-ON 10310 DRM L-Theanine (44330).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



JIAHERB
essentials of nature



CERTIFICATE OF ANALYSIS

Rhodiola Rosea Extract (Rhodiola5Plus™) 3% Rosavins+2% Salidroside HPLC

GENERAL INFORMATION

Lot Number	CHJT-C-A121150	Report Date	12/21/2021
Manufacture Date	12/14/2021	Expiration Date	12/13/2024
Botanical Species	<i>Rhodiola rosea</i>	Part Used	Root
Country of Origin	Russia	Carrier Used	Maltodextrin
Solvent Used	Water & Ethanol	Kosher Halal	Yes Yes

ITEM	SPECIFICATION	TEST RESULTS	METHOD
------	---------------	--------------	--------

PHYSICAL & CHEMICAL

Identification	Corresponds to Reference Standard	Complies	HPTLC USP<203>
Appearance	Yellow brown to reddish brown fine powder	Yellow brown fine powder	Organoleptic
Rosavins	NLT (%) 3.0	3.00	HPLC USP<621>
Salidroside	NLT (%) 2.0	2.22	HPLC USP<621>
Particle Size	NLT 95% through 80 mesh	Complies	USP<786>
Loss on Drying	NMT (%) 10.0	3.44	USP<731>
Bulk Density	Between (g/100ml) 30-70	49	USP<616>Method I

CONTAMINANTS

Lead (Pb)	NMT (ppm) 2.0	0.0097	ICP-MS USP<730>
Arsenic (As)	NMT (ppm) 2.0	0.0778	ICP-MS USP<730>
Cadmium (Cd)	NMT (ppm) 1.0	0.0029	ICP-MS USP<730>
Mercury (Hg)	NMT (ppm) 1.0	0.0095	ICP-MS USP<730>
Solvent Residue	Meets Requirements	Complies	GC USP<467>
Pesticide Residue	Meets Requirements	Complies	USP<561>Modified

MICROBIOLOGICAL

Total Plate Count	NMT (cfu/g) 10,000	100	USP<2021>
Yeast & Mold	NMT (cfu/g) 1,000	55	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: Box

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: Qiangang Wang

Signature: *Qiangang Wang*

Title: Quality Control Manager

CTLA ID: 61544
 Date Received: 11/4/2022
 Sample Name: 10405 Rhodiola Rosea 3%/2%
 Lot Number: 45073
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Rosavins	HPLC	0.002 >3	5.232	g/100g
Salidroside	HPLC	.001 2	3.026	g/100g
Rhodiola Rosea	HPTLC	Report	See COA note	
Rapid Complete Micro				
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

HTPLC result: The fingerprint of the test solution is similar to that of the corresponding reference sample.

12/20/2022
 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.



Client Name: Origin Nutraceutical



Sample ID: 65264

Address: 151 E 3450 N
Spanish Fork, UT 84660

Sample Type:

Date Recieved: 10/13/2022

Sample Name: 10405 DRM Rhodiola Rosea 3%/2%

Date Completed: 10/17/2022

Lot Number: 45073

COA Notes:

Chemistry Category

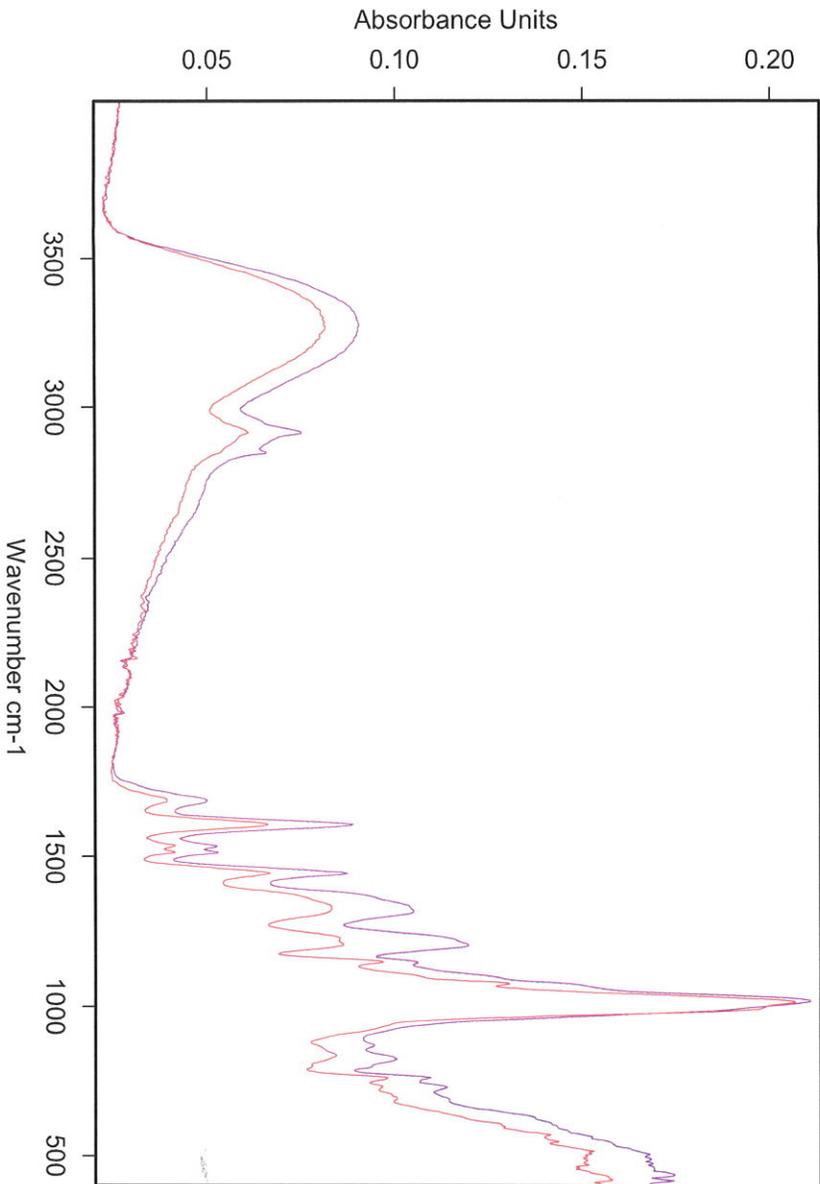
ID

Test	Method	MDL	Specification	Result	Units
ID	FTIR		Report	92	%



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 10405 DRM Rhodiola Rosea 3%-2% (2020
Entry No.	11
Library name	
Library description	
Copyright	User library

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	910	ON 10405 DRM Rhodiola Rosea 3%-2% (20208) Standard 3			

Color	File	Path	Spectrum Type
	65264-ON 10405 DRM Rhodiola Rosea 3%-2% (45073).2	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Huazhong Pharmaceutical Co., Ltd.

No.118 Xianshan Road, Xiangyang City, Hubei Province, China

10226

Certificate of Analysis

Product	Thiamine HCL, USP	Ref. Standard:	FCC11/USP42
CAS # (Active) :	67-03-8	Batch / Lot #	Y01202001116
Formula (Active):	C ₁₂ H ₁₇ ClN ₄ OS · HCl	MFG Date	01/28/2020
PAT Item # :	30-8212	Retest Date	01/27/2023
Country of Origin :	CHINA	Batch Size	500 KG
		Pack Size	25 KG, Drum

Distributed by PAT Vitamins

Analysis Contents	Specification	Methods	Results
DESCRIPTION	White granular powder	USP	Conform
IDENTIFICATION	Positive	USP	Positive
PARTICLE SIZE	≥ 95.0% through 20 mesh	US Sieve	100.0%
BULK DENSITY	*As Reported		Not Tested
TAPPED DENSITY	*As Reported		Not Tested
APPEARANCE OF SOLUTION	Meets requirement	USP	Pass
ABSORBANCE OF SOLUTION	≤ 0.025	BP	0.013
PH	2.7 ~ 3.3	USP	3.1
LIMIT OF NITRATE	Meets requirement	USP	Pass
SULFATE	≤ 300 PPM	BP	< 300 PPM
HEAVY METAL	≤ 10 PPM	BP	< 10 PPM
ARSENIC	≤ 1 PPM	AAS	< 1 PPM
CADMIUM	≤ 3 PPM	AAS	< 0.3 PPM
LEAD	≤ 0.5 PPM	AAS	< 0.5 PPM
MERCURY	≤ 0.1 PPM	AAS	< 0.1 PPM
RESIDUAL SOLVENTS	Ethanol ≤ 0.50%	USP	< 0.5%
	Methanol ≤ 0.30%	USP	< 0.3%
RELATED SUBSTANCES	Within limit	USP	Pass
LOSS ON DRYING (%)	≤ 5.00%	USP	1.50%
RESIDUE ON IGNITION	≤ 0.10%	USP	0.05%
CHROMATOGRAPHIC PURITY	≤ 1.00%	USP	0.10%
ASSAY (on dried basis)	98.50% ~ 101.00%	USP	99.50%
MICROBIOLOGY			
TOTAL PLATE COUNT	≤ 1,000 CFU / Gram	CP	< 1,000 CFU / Gram
YEAST & MOLD	≤ 100 CFU / Gram	CP	< 100 CFU / Gram
COLIFORMS	≤ 10 CFU / Gram	CP	< 10 CFU / Gram
E. COLI	Negative	CP	Negative
STAPH. AUREAUS	Negative	CP	Negative
SALMONELLA	Negative	CP	Negative
CONCLUSION	The above product conforms to listed standard(s)		

QC Department

Verified by:

K.Y.

Analyst:

J.J.

Date:

08/10/2020

Date:

08/10/2020



Contract TESTING Laboratories

OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 22615
 Date Received: 10/23/2020
 Sample Name: 10226 DRM Vitamin B-1 Thiamine Hydrochloride
 Lot Number: 29927
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
ID, Rapid Complete Micro Combo				
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>	USP <2022>	Report	Negative	
Rapid Yeast and Mold	AOAC 997.02	10 Report	<10	cfu/g

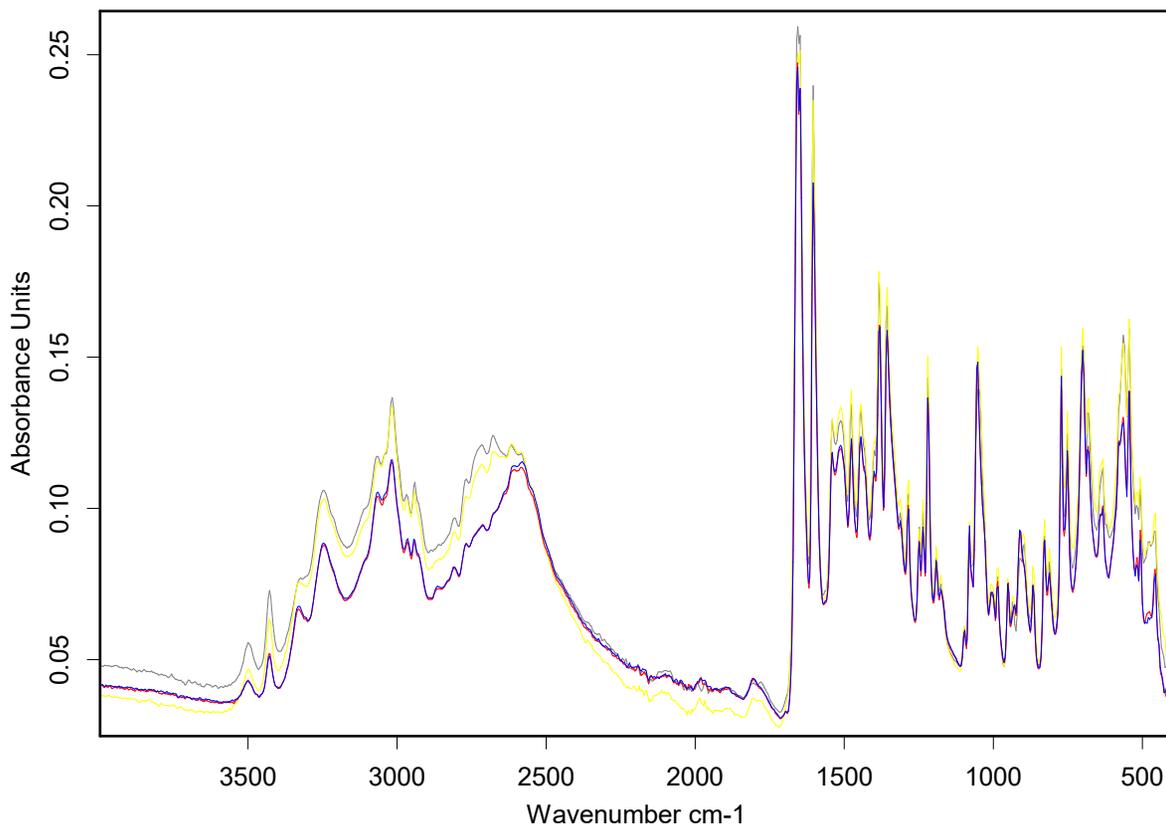
10/27/2020

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	10226 Vitamin B1 Thiamine HCL 4103 Standar
Entry No.	792
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
Blue	986	ON 10226 DRM Vitamin B-1 Thiamine Hydrochloride (29927) Standard 3			
Yellow	883	10226 Vitamin B-1 Thiamine Hydrochloride 3212 Standard 1			
Grey	872	10226 Vitamin B1 Thiamine HCL 4103 Standard 2			

Color	File	Path	Spectrum Type
Red	22615- ON 10226 DRM Vitamin B-1 Thiamine Hydrochlorid	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS New New	Query Spectrum

CTLA ID: 61534
 Date Received: 11/1/2022
 Sample Name: 10226 Vitamin B-1 Thiamine Hydrochloride
 Lot Number: 29927
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Vitamin B1 (Thiamin HCl)	HPLC	0.165 Report	101.580	%

11/9/2022
 DATE


 Quality Manager

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Riboflavin 5 Phosphate Sodium USP Powder

Batch# **2020009**

Manufacture Date October 2, 2020

Retest Date October 1, 2022

Product Characteristics

Appearance	Yellow to orange-yellow crystalline powder
Country of Origin	China
Manufacturer	Hubei Guangji Pharmaceutical Co Ltd

Profile	Specification	Result
Identification	Positive	Complies
pH	5.0 – 6.5	6.0
Specific rotation	+37° to +42°	+38.2°
Lumiflavin	≤ 0.025	0.006
Related substances		
Free riboflavin	≤ 6.0%	2.6%
Riboflavin diphosphates	≤ 6.0%	1.4%
Inorganic phosphate	Meets requirement	Complies
Loss on drying	≤ 7.5%	3.8%
Residue on ignition	≤ 25.0%	22.6%
Heavy metals	≤ 10 mg/kg	Complies
Residual solvents	Meets USP	Complies
Assay (on dried basis)	73.0% - 79.0%	73.7%

Storage

Store in tight containers, protected from light, moisture and heat.

TR Reference# **T2103026**

Approved by: *Mao Jian* 3-17-21

CTLA ID: 31018
 Date Received: 4/28/2021
 Sample Name: 10227 Riboflavin 5 Phosphate
 Lot Number: 35205
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
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
Vitamin B2 (Riboflavin)	HPLC		73-79		%
FTIR Spectra	FTIR		Report		

Preliminary results

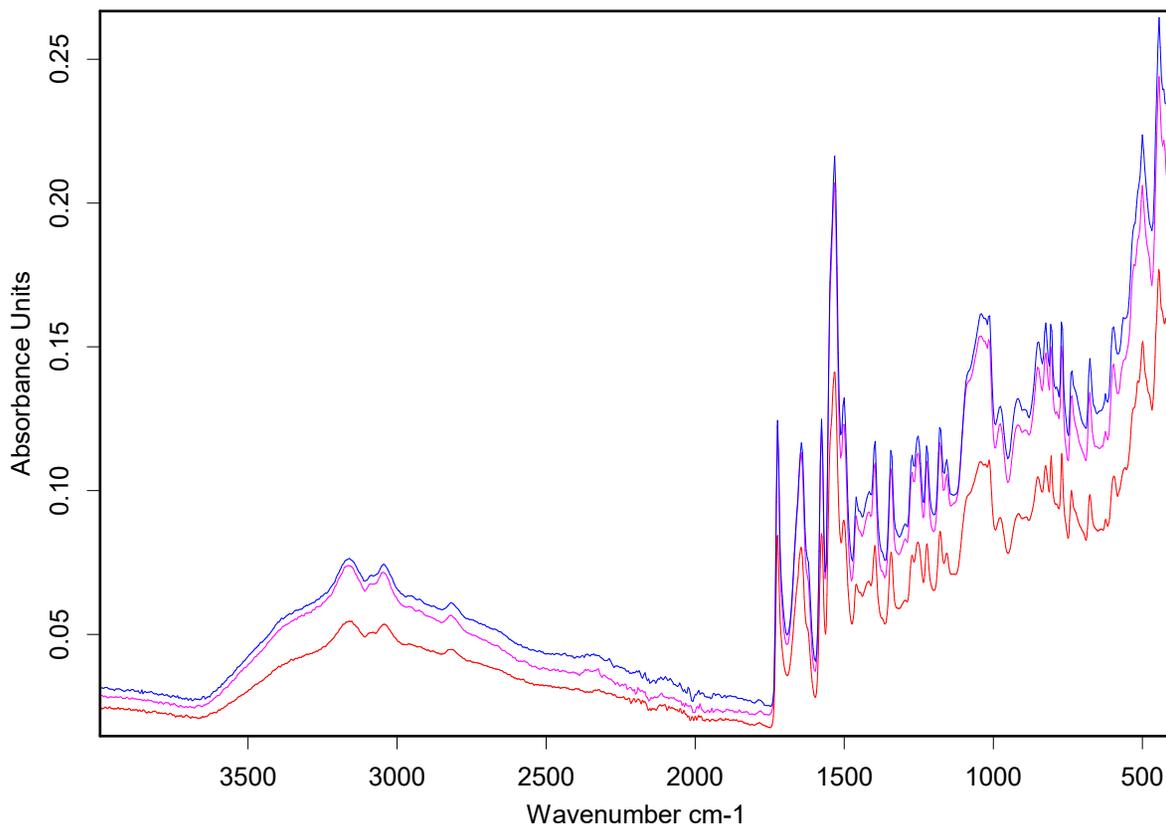
5/3/2021

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	10227 Riboflavin 5 Phosphate 1792 Standard
Entry No.	646
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
Blue	974	10227 Riboflavin 5 Phosphate 2014033A-608226 Standard 1			
Magenta	970	10227 Riboflavin 5 Phosphate 1792 Standard 2			

Color	File	Path	Spectrum Type
Red	31018-ON 10227 DRM Riboflavin 5 PhospNAt e (35205).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS New New	Query Spectrum



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: 65307

Address: 151 E 3450 N
Spanish Fork, UT 84660

Sample Type:

Date Recieved: 10/19/2022

Sample Name: 10227 Riboflavin 5 Phosphate

Date Completed: 10/31/2022

Lot Number: 35205

COA Notes:

Chemistry Category

Vitamin B2 (Riboflavin 5 Phosphate)

Test	Method	MDL	Specification	Result	Units
Vitamin B2 (Riboflavin 5 Phosphate)	HPLC	0.152	73-79	78.45	%

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.



JUBILANT INGREVIA

AIDP Inc.
Product code: N0500

CERTIFICATE OF ANALYSIS

Name of the Product	: NIACINAMIDE USP	Mfg. License No	: 153/RR/AP/2000/B/R(L)
Batch No	: 2038042022/J/A	Date of Mfg.	: March'2022
Quantity	: 1000 Kgs	Date of Expiry	: February'2027
		Date of Analysis	: 05/05/2022

TESTS	OBSERVATIONS	SPECIFICATION
01. Description and Solubility	: White crystalline powder. Is odourless and has a bitter taste. Solution is neutral to litmus. and Conforms	White crystalline powder. Is odourless or practically so, and has a bitter taste. Its solutions are neutral to litmus. Freely soluble in water and in alcohol; soluble in glycerin.
02. Identification Test(A) IR	: Conforms	The IR Absorption spectrum is concordant with the spectrum of reference standard.
Test(B) UV	: 0.65	A ₂₄₅ /A ₂₆₂ ratio is 0.63 and 0.67
03. Assay (by HPLC)	: 99.7% w/w	Not less than 98.5%w/w and not more than 101.5%w/w of C ₆ H ₆ N ₂ O, calculated on the dried basis.

IMPURITIES :

04. Residue on Ignition	: 0.04 % w/w	Not more than 0.1% w/w
05. Readily Carbonizable substances	: Conforms	Test as per USP.

SPECIFIC TESTS :

06. Melting Range	: 128.5 to 130.5°C	Between 128 to 131 °C
07. Loss on Drying	: 0.098%w/w	Not more than 0.5% w/w

ADDITIONAL TEST:

01. Heavy Metals	: < 20 ppm	Not more than 20 ppm
------------------	------------	----------------------

Storage condition: Store in Tight container.

Report: The material conforms the above stated analytical tests of USP 43.

ANALYSED BY:

M.Malleswara Rao
05/05/2022

M.MALLESWARA RAO
Analytical Chemist

APPROVED BY:

P.Lakshmana Rao
05/05/2022

P.LAKSHMANA RAO
Manufacturing Chemist

A Jubilant Bhartia Company

OUR VALUES



Jubilant Ingrevia Limited
1-A, Sector 10-A
Noida-201 307, UP India
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Fax: +91 120 4234895-06
www.jubilant-ingrevia.com

Regd Office:
Bhartiagram, Gapatla
Distt. Amalapuram - 544 273
Uttar Pradesh, India
CIN: U09439MH2019PLC1122852

CTLA ID: 61527
 Date Received: 11/1/2022
 Sample Name: 10110 Niacinamide-Vitamin B3
 Lot Number: 45126
 Customer: Origin Nutraceutical

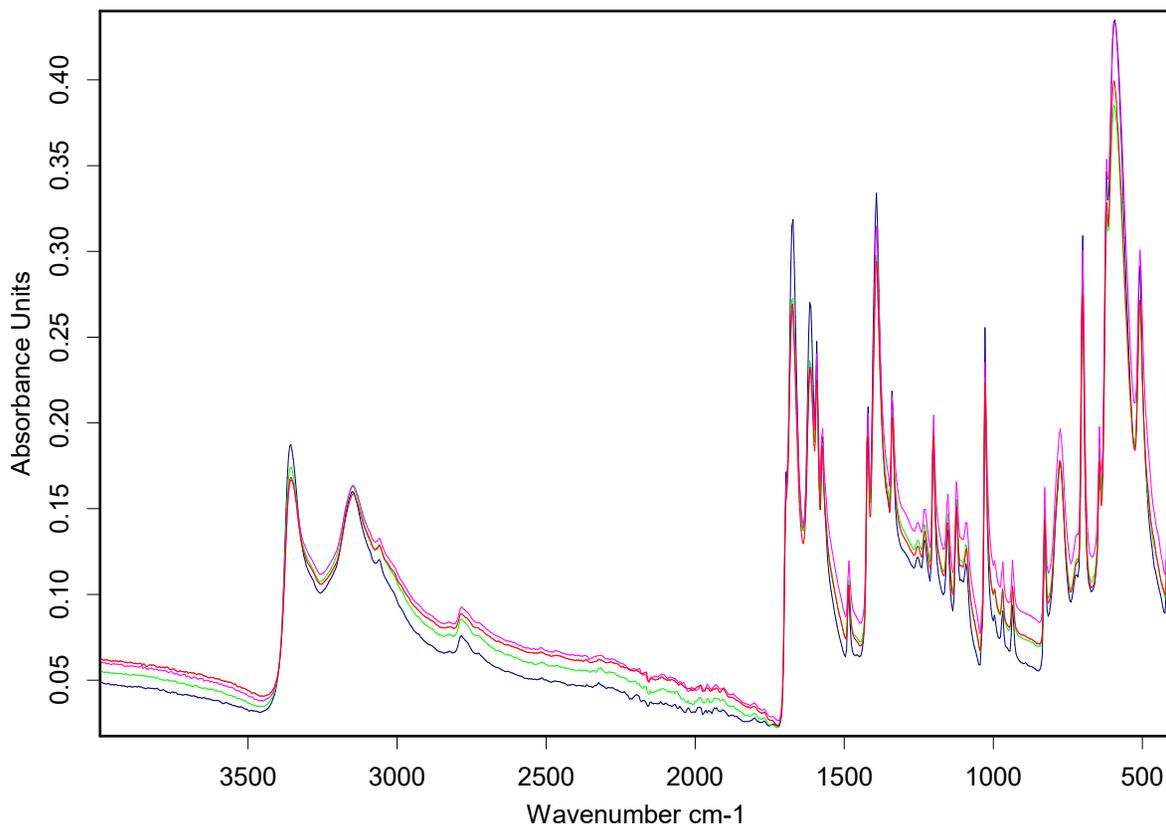
Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
Total Plate Count	USP <2021>	100 Report	600	cfu/g
Total Coliforms	USP <2021>	10 Report	<10	cfu/g
<i>E. coli</i>	USP <2022>	Negative	Negative	
<i>Salmonella</i>	USP <2022>	Negative	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>	Negative	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10 Report	<10	cfu/g
Vitamin B3 (Niacinamide/Nicotinamide)	HPLC	0.15 Report	100.08	%

11/9/2022
DATE



Quality Manager

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Product Number	10110 Niacinamide 61252 Standard 2
Entry No.	128
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
Magenta	961	10110 Niacinamide 61602 Standard 3			
Green	960	10110 Niacinamide 63205 Standard 1			
Blue	904	10110 Niacinamide 61252 Standard 2			

Color	File	Path	Spectrum Type
Red	65281-ON 10110 DRM Niacinamide - Vitamin B3 (Kosher) (C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



杭州鑫富科技有限公司

Hangzhou Xinfu Science & Technology Co.,Ltd.

CERTIFICATE OF ANALYSIS

Product Name: D-Calcium Pantothenate

Batch No.	20082503	Quantity	2700kgs
Date of manufacturing	08/25/2020	Date of expiry	08/24/2023

Item	Test Method	Standard	Result
Appearance	USP	White powder	White powder
Infrared identification	USP	Meets standard graph	Meets standard graph
Identification of calcium	USP	Meets all requirements	Meets all requirements
Optical rotation(Dried Basis)	USP	+25°- +27.5°	+26.7°
Alkalinity	USP	No Pink reaction within 5 Seconds	Conforms
Loss on drying	USP(105°for 3 HR)	<=5.0%	2.2%
Residual Solvent (Methanol)	USP	<=0.3%	0.05%
Calcium Content	USP	8.2-8.6%	8.4%
Assay of Calcium	USP	98.0-102.0%	99.0%
Pantothenate(On Dried Basis)			
The above items are tested every batch.			
Arsenic Assay	AA or ICP-MS	<=1.0 ppm	Conforms
Cadmium Assay	AA or ICP-MS	<=0.5 ppm	Conforms
Lead Assay	AA or ICP-MS	<=0.5 ppm	Conforms
Mercury Assay	AA or ICP-MS	<=0.1ppm	Conforms
Microbiological Test			
Total Plate Count	USP	<1,000	Conforms
Yeast and Mold	USP	<100	Conforms
Salmonella	USP	Negative	Conforms
E.Coli	USP	Negative	Conforms
Staphylococcus Aureus	USP	Negative	Conforms
Coliform	USP	<=100cfu/g	Conforms
The above items are based on periodic analysis.			
Storage			
Store in an air tight container in a dry place, protected from light.			
Conclusion: Complies with current USP43.Calcium Pantothenate is manufactured in China and all raw materials originate from China. Calcium Pantothenate complies with Proposition 65.Xinfu can guarantee that this product does not contain Melamine and any of its by products.			

Complied by: *Kathy*
 Rechecked by: *Jiu miao*

杭州鑫富科技有限公司
 HANGZHOU XINFU SCIENCE&TECHNOLOGY CO.,LTD

Add:No.9 Shangguafan, Jinnan Distr., Lin'an, Hangzhou 311301, Zhejiang, P.R.China
 Tel: + 86 571 6375 9259/9219
 Fax: +86 571 6375 9260

CTLA ID: 61528
 Date Received: 11/1/2022
 Sample Name: 10111 Vitamin B-5 Calcium Pantothenate
 Lot Number: 38888
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
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>	Negative	Negative	
<i>Salmonella</i>	USP <2022>	Negative	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>	Negative	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10 Report	<10	cfu/g

11/3/2022
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.

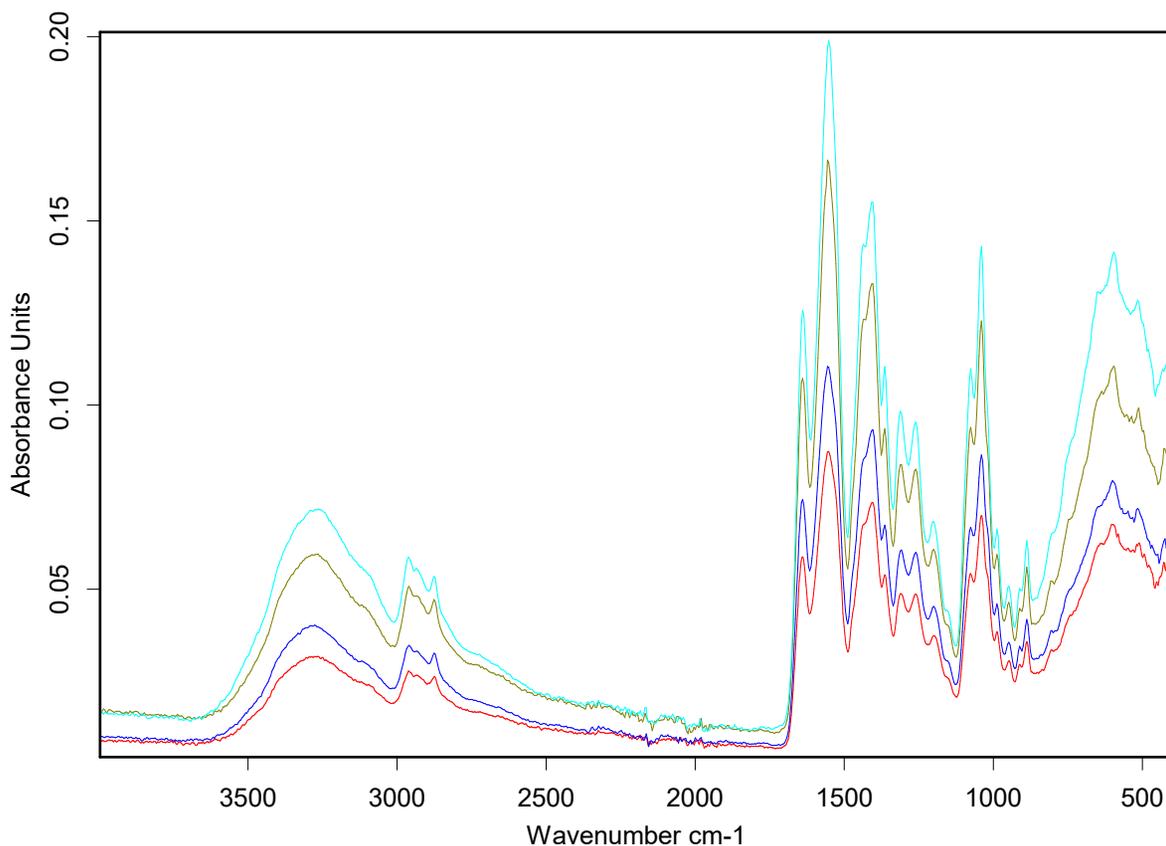
CTLA ID: 65454
 Date Received: 1/4/2023
 Sample Name: 10111 DRM Vitamin B-5 Calcium Pantothenate 100% (Kosher)
 Lot Number: 38888
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Vitamin B5 (D-Calcium Pantothenate)	HPLC	0.202 Report	101.335	%

1/12/2023
 DATE


 Quality Manager

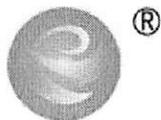
Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results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



Product Number	10111 DRM Vitamin B-5 Calcium Pantotenate
Entry No.	1447
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
Blue	954	ON 10111 Vitamin B-5 Calcium Pantothenate 100% (19719) Standard 3			
Cyan	927	10111 Calcium Pantothenate 61237 Standard 1			
Brown	923	10111 DRM Vitamin B-5 Calcium Pantotenate 100% (Kosher) 12364 Standard 3			

Color	File	Path	Spectrum Type
Red	40064-ON 10111 DRM Vitamin B-5 Calcium Pantothenate 1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS New New	Query Spectrum



Certificate of Analysis

No: C04202111003A(Page1)

品名 Product Name: 吡哆醛-5-磷酸酯 Pyridoxal-5-Phosphate

批号 Batch No.: C042111803

批量 Batch Size:500kg

生产日期 Mfg.Date: Oct.29,2021

复验日期 Retest Date:Oct.29,2024

报告日期 Report Date: Nov.07,2021

包装 Packing Size: 25kg/Drum

项目 Item	标准 Specification	结果 Result	分析方法 Analysis Method
性状 Description	浅黄色或类白色粉末 slightly yellow or off-white powder	conforms	Visual
鉴别 Identification	The retention time of the major peak of product corresponds to that of the standard	conforms	CP <0512>
溶解度 Solubility	Very slightly soluble in water, soluble in alkali-OH Soln.	conforms	CP General Notices
熔点 Melting point	140~145℃	143℃	CP<0612>
水分 Water by KF	≤ 10.0%	8.2%	CP<0832>
重金属 Heavy metals	≤ 10ppm	< 10ppm	CP<0821>
镉 Cadmium	≤ 0.5ppm	< 0.01ppm	CP<0412>
砷 Arsenic	≤ 1.5ppm	< 0.040ppm	CP<0412>
铅 Lead	≤ 0.5ppm	< 0.1ppm	CP<0412>
汞 Mercury	≤ 0.1ppm	< 0.010ppm	CP<0412>
pH值 pH (in 0.25% water)	2.6~3.0	2.9	CP<0631>
目数 Particle size (Mesh)	90% through 30 mesh	conforms	CP<0982>
游离维生素 B6 Free Vitamin B6	≤0.05%	0.01%	CP<0512>



®

上海联陆实业股份有限公司

Shanghai Lianlu Industrial Co., Ltd.

Certificate of Analysis

No: C04202111003A(Page2)

品名 Product Name: 吡哆醛-5-磷酸酯 Pyridoxal-5-Phosphate

批号 Batch No.: C042111803

批量 Batch Size: 500kg

生产日期 Mfg.Date: Oct.29,2021

复验日期 Retest Date: Oct.29,2024

报告日期 Report Date: Nov.07,2021

包装 Packing Size: 25kg/Drum

项目 Item	标准 Specification	结果 Result	分析方法 Analysis Method
松密度 Bulk density	—	0.32g/ml	USP<616>
紧密度 Tapped density	—	0.64g/ml	USP<616>
残留溶剂 Residual Solvents	Complies to USP38		
甲苯 Toluene	≤890ppm	Not Detected	CP<0861>
乙醇 Ethanol	≤5000ppm	45ppm	CP<0861>
含量 Assay (on dry basis)	98.5~101.0%	99.6%	CP<0512>
微生物检测 Microbe. Test:			
细菌总数 Total Plate Count	≤1000CFU/g	<10CFU/g	CP<1105>
酵母菌及霉菌 Yeast & Mold	≤100CFU/g	<10CFU/g	CP<1105>
沙门氏菌 Salmonella	Negative	Negative	CP<1106>
大肠杆菌 E.Coli	Negative	Negative	CP<1106>
金黄色葡萄球菌 Staphylococcus Aureus	Negative	Negative	CP<1106>
结论: 本品符合企业标准 Conclusion: The product conform to the enterprise standard.			

包装和贮存 Packing and Storage: 500kg packed in 5kg/Bag, 25kg/Drum, and one transparent PE bag and one black PE bag and one aluminum foil bag in side. Store in well-closed, light-resistant containers, the temperature should between 5 to 10°C.

标签信息 Label information: Product name, Batch No., Net weight, GWT, TWT, Manufacturer.



Distributed by
 APP GLOBAL INC
 www.appglobalinc.com
 Tel: (909) 598-1767

CTLA ID: 61530
 Date Received: 11/2/2022
 Sample Name: 10223 Pyridoxal 5 Phosphate (P5P)
 Lot Number: 42947
 Customer: Origin Nutraceutical

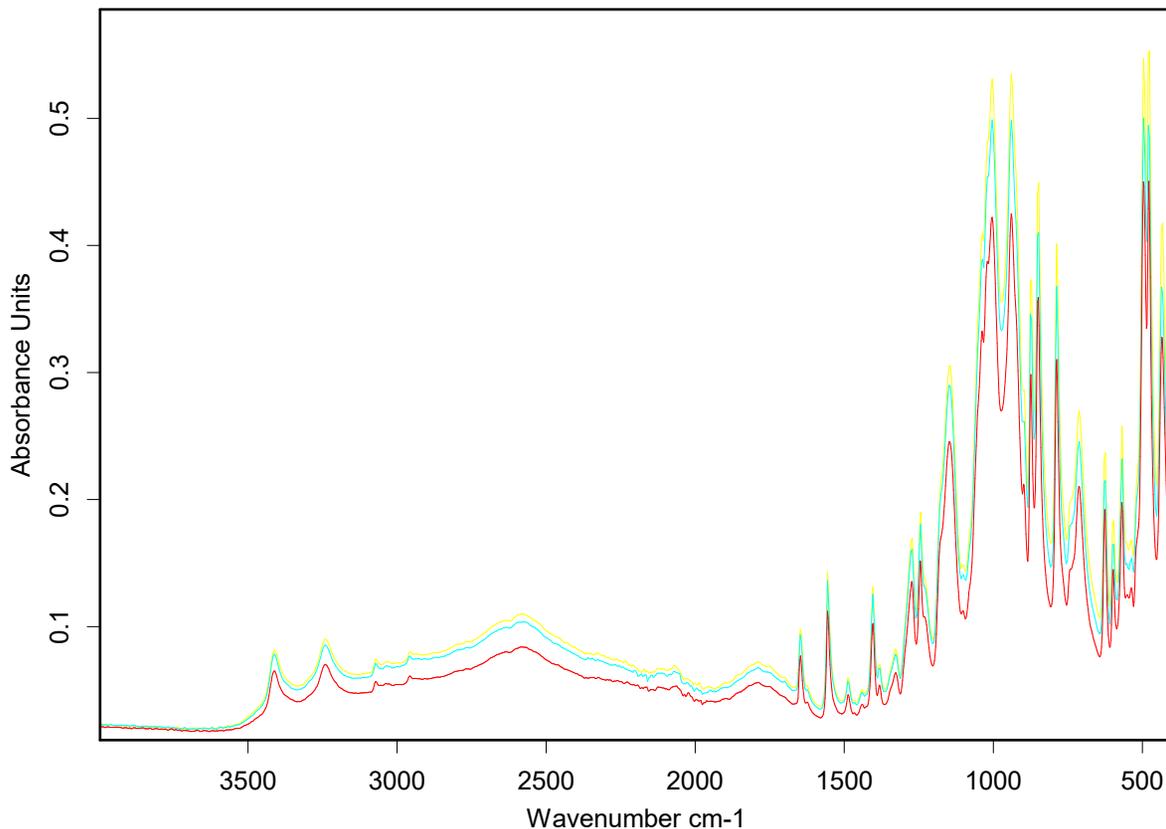
Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
Total Plate Count	USP <2021>	100 Report	<100	cfu/g
Total Coliforms	USP <2021>	10 Report	<10	cfu/g
<i>E. coli</i>	USP <2022>	Report	Negative	
<i>Salmonella</i>	USP <2022>	Report	Negative	
<i>Staphylococcus aureus</i> <2022>	USP <2022>	Report	Negative	
Rapid Yeast and Mold	AOAC 2014.05	10 Report	<10	cfu/g
Vitamin B6 (Pyridoxal 5 Phosphate)	HPLC	0.18 Report	101.43	%

11/10/2022
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	10223 Pyridoxal Phosphate 61403 Standard 1
Entry No.	227
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
Cyan	971	10223 Pyridoxal-E-Phosphate 1017 Standard 2			
Yellow	961	10223 Pyridoxal Phosphate 61403 Standard 1			

Color	File	Path	Spectrum Type
Red	53617-ON 10223 DRM Pyridoxal 5 Phosphate (P5P) (42947)	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



江西天新药业股份有限公司
JIANGXI TIANXIN PHARMACEUTICAL CO.,LTD

CERTIFICATE OF ANALYSIS

AIDP INC.
Product Code: B0604E

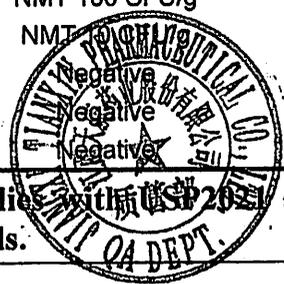
COUNTRY OF ORIGIN: CHINA

Product name: Biotin

Batch No.: BN21071013

Manufacturing date	Jul 14, 2021	Reporting date	Jul 20, 2021
Retest date	Jul 13, 2024	Article No.	10102
Package	1 kg per tin	Package size	Φ140 × 220 (mm)
Quantity	100 kg		

Test item	Specification	Method	Result
Description	Practically white, crystalline powder	USP2021	Comply
Identification			
-IR	Consistent with the Reference IR spectrum	USP2021	Comply
-Specific rotation	+89° ~ +93°	USP2021	+90.4°
-Retention time	Retention time of the major peak corresponds to that of the standard solution	USP2021	Comply
Related compounds			
-Individual impurity	≤1.0%	USP2021	0.05%
-Total impurities	≤2.0%	USP2021	0.05%
Assay	97.5% ~ 102.0%	USP2021	99.8%
Heavy metals			
-Lead	≤0.5 mg/kg	AAS, in-house	<0.5 mg/kg
-Cadmium	≤0.5 mg/kg	AAS, in-house	<0.5 mg/kg
-Arsenic	≤0.5 mg/kg	AAS, in-house	<0.5 mg/kg
-Mercury	≤0.1 mg/kg	AAS, in-house	<0.1 mg/kg
Microbials			
-Total Aerobic Microbial Count	NMT 100 CFU/g	ChP2020	<100 CFU/g
-Total Yeasts and Moulds Count	NMT 10 CFU/g	ChP2020	<10 CFU/g
-E. Coli	Negative	ChP2020	Negative
-Salmonella	Negative	ChP2020	Negative
-S. Aureus	Negative	ChP2020	Negative
Conclusion: This batch complies with USP 2021 and additional requirements for heavy metals and microbials.			
Remark: Store in tight containers.			



Reported by:

Approved by:

Add.: Le'anjiang Industrial Zone,
Leping, Jiangxi, 333300, China

Tel: +86-798-6702928
Fax: +86-798-6702928

CTLA ID: 61529
 Date Received: 11/1/2022
 Sample Name: 10197 Biotin 100%
 Lot Number: 42529
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Rapid Complete Micro				
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
Vitamin B7 (Biotin)	HPLC	0.303 Report	98.953	%

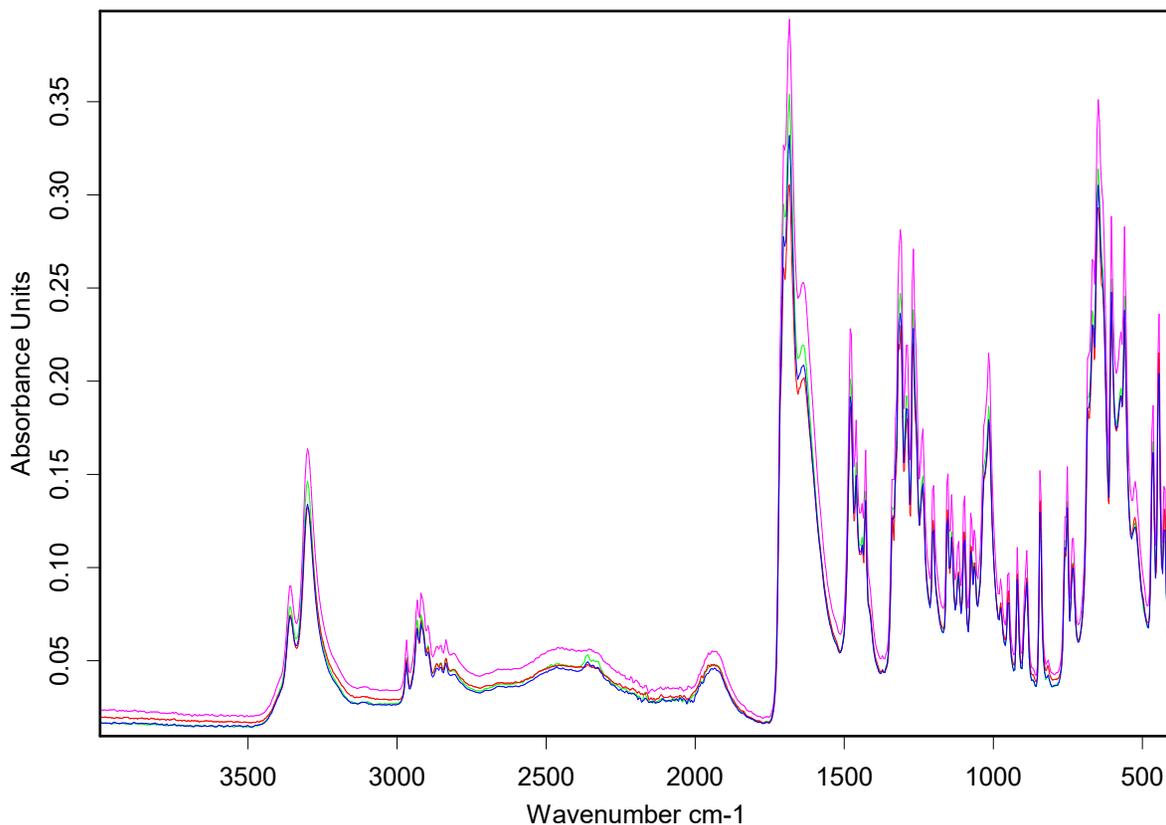
11/9/2022

DATE



Quality Manager

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Product Number	10197 Biotin 100% 1274 Standard 3
Entry No.	568
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
Blue	975	10197 Biotin 319-B0604B Standard 2			
Magenta	968	10197 Biotin 60061 Standard 1			
Green	964	10197 Biotin 100% 1274 Standard 3			

Color	File	Path	Spectrum Type
Red	52222-ON 10197 DRM Biotrin 100% (42529).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

CERTIFICATE of ANALYSIS

Product: L-Methylfolate Calcium
Product ID: LMETCA001
CAS: 151533-22-1
Batch: MTF220702
Origin: China

Production Date: 07/02/2022
Analysis Date: 07/02/2022
Expiration Date: 07/01/2024

Physical/Chemical Control	Specification	Result	Test Method
Appearance	Powder	Conforms	Visual
Assay	Calcium (Ca): 7.0 - 8.5% (Dried Basis)	8.1%	Titration (USP 43)
	95.0 - 102.0% (Dried Basis)	99.3%	HPLC (USP 43)
Boron (B)	≤ 50 ppm	Conforms	USP <233>
Bulk Density	0.4 - 0.6 g/ml	Conforms	Weighing
Chloride (Cl)	≤ 0.5%	0.05%	USP <233>
Color	Whitish or yellowish	Conforms	Visual
Enantiomeric Purity	D-5-methyltetra hydrofolate: ≤ 1.0%	0.09%	USP 43
Identification	IR: Positive	Conforms	USP 43
Moisture/Water	6.0 - 17.0%	10.6%	USP <921>
Odor	Characteristic	Conforms	Organoleptic
Particle/Mesh Size	80 mesh: ≥ 90%	Conforms	Mesh Screen
Related Substances	Folic acid: ≤ 0.5%	0.13%	USP 43
	7,8-Dihydrofolic acid: ≤ 0.5%	0.06%	USP 43
	(6R & 6S)-Mefox: ≤ 1.0%	0.04%	USP 43
	4-Aminobenzoylgluta-mic acid: ≤ 0.5%	0.01%	USP 43
	4a-Hydroxy-5-methyltetrahydrofolic: ≤ 1.0%	0.01%	USP 43
	5,10-Methylenetetrahydrofolic: ≤ 0.5%	0.02%	USP 43
	5-Methyltetrahydrop teroic acid: ≤ 0.5%	0.01%	USP 43
	Tetrahydrofolic acid: ≤ 0.5%	0.05%	USP 43
	Dimethyltetrahydrofolic acid: ≤ 0.15%	0.03%	USP 43
	Total Related Compounds ≤ 2.5%	1.13%	USP 43
Residual Solvents	Ethanol: ≤ 5,000 ppm	325 ppm	USP <467>
	2-Propanol: ≤ 5,000 ppm	56 ppm	USP <467>
Taste	Characteristic	Conforms	Organoleptic

Heavy Metal Control

Arsenic (As)	≤ 1.5 ppm	Conforms	USP <233>
Cadmium (Cd)	≤ 0.5 ppm	Conforms	USP <233>
Heavy Metals	≤ 10 ppm	Conforms	USP <233>
Lead (Pb)	≤ 1 ppm	Conforms	USP <233>
Mercury (Hg)	≤ 1.5 ppm	Conforms	USP <233>
Platinum (Pt)	≤ 10 ppm	Negative	USP <233>

Microbiological Control

E. coli	Negative /10g	Conforms	USP <62>
S. aureus	Negative /10g	Conforms	USP <62>
Salmonella	Negative /10g	Conforms	USP <62>
Total Plate Count	≤ 1,000 cfu/g	< 100 cfu/g	USP <61>
Yeast & Mold	≤ 100 cfu/g	< 10 cfu/g	USP <61>

Further Information

Carrier/Excipient	None
Solubility	Slight soluble in water
Solvent Used	NaBH4 & HCl & Ethanol & 2-Propanol

Starting Material(s): FA Base

Reviewed By: Marcia Zhang
 Marcia Zhang

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Certificate of Analysis

Sample Information

CTLA ID: 61224
 Date Received: 10/26/2022
 Sample Name: 10464 DRM L-Methyltetrahydrofolate Calcium (L-5-MTHF)
 Lot Number: 45388
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95	%
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

11/10/2022
DATE


Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 65456
 Date Received: 1/4/2023
 Sample Name: 10464 DRM L-Methyltetrahydrofolate Calcium (L-5-MTHF) (100%)
 Lot Number: 45388 / 46133
 Customer: Origin Nutraceutical

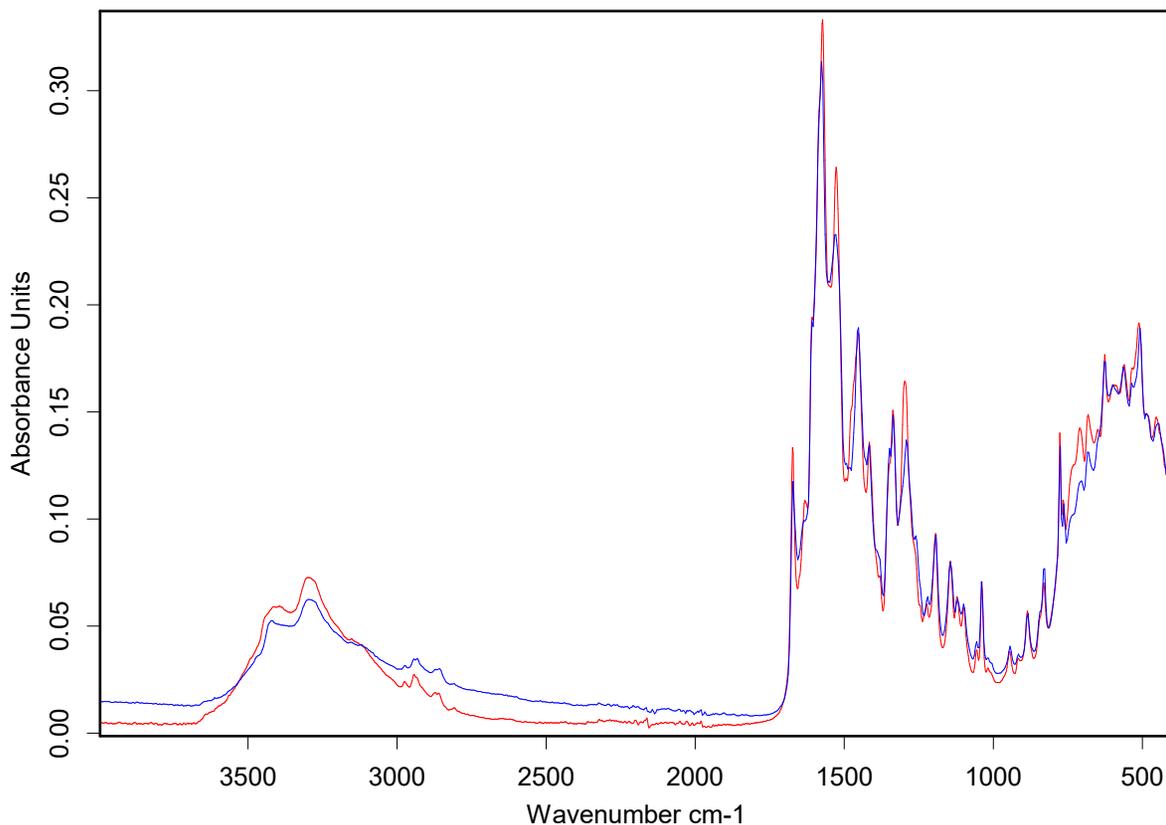
Analysis	Method	MDL Specification	Result	Units
L-5 Methyltetrahydrofolate	HPLC	0.0592 Report	100.484	%

1/12/2023

DATE


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Product Number	ON 10464 L-Methyletrahydrofolate Calcium (I
Entry No.	1998
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
	950	ON 10464 L-Methyletrahydrofolate Calcium (I-5) 24340 Standard 2			

Color	File	Path	Spectrum Type
	61224-ON 10464 DRM L-Methyltetrahydrofolate Calcium (L	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Hebei North China Pharmaceutical - Huaheng

Xingyuan Street Biological Industry Zone Nanbaishe Town, Zhao County,
Shijiazhuang Hebei, China

Certificate of Analysis

Product	Cobamamide (Adenosylcobalamin, Co-Enzyme V-B12)	Ref. Standard:	CP 2015
		Batch / Lot #	X190901
CAS # (Active) :	13870-90-1	MFG Date	09/11/2019
Formula (Active):	C ₇₂ H ₁₀₀ CoN ₁₈ O ₁₇ P	Retest Date	09/10/2024
PAT Item # :	30-8117	Batch Size	10.57 KG
Country of Origin :	CHINA	Pack Size	100 grams / Tin

Distributed by PAI vitamins

Analysis Contents	Specification	Methods	Results
DESCRIPTION	Dark red crystals or powder	Visual	Conform
IDENTIFICATION	UV, Maxima absorption @ 264nm	UV	Conform
	Maxima absorption @ 285 nm	UV	Conform
	Maxima absorption @ 305 nm	UV	Conform
	Maxima absorption @ 460 nm	UV	Conform
	HPLC	HPLC	Conform
	IR, infrared absorption meeting standard	IR	Conform
ARSENIC	≤ 3 PPM	In-House	< 3 PPM
CADMIUM	≤ 1 PPM	In-House	< 1 PPM
LEAD	≤ 1 PPM	In-House	< 1 PPM
MERCURY	≤ 0.1 PPM	In-House	< 0.1 PPM
HYDROXOCOBALAMIN	A460 / A352 ≥ 0.90	UV	0.98
RELATED SUBSTANCES	≤ 1.0%	HPLC	0.9%
RESIDUAL SOLVENT	Acetone, ≤ 0.5%	GC	0.008
	Ethanol, ≤ 0.5%	GC	< 0.5%
LOSS ON DRYING (%)	≤ 12.00%	In-House	7.10%
ASSAY (on dried basis)	98.00% ~ 102.00%	HPLC	99.30%
MICROBIOLOGY			
TOTAL PLATE COUNT	≤ 1,000 CFU / Gram	CP	< 1000 CFU / Gram
YEAST & MOLD	≤ 100 CFU / Gram	CP	< 100 CFU / Gram
COLIFORMS	Negative	CP	Negative
E. COLI	Negative	CP	Negative
STAPH. AUREAUS	Negative	CP	Negative
SALMONELLA	Negative	CP	Negative
CONCLUSION	The above product conforms to listed standard(s)		

QC Department

Verified by:

K.Y.

Analyst:

J.J.

Date:

12/10/2019

Date:

12/10/2019

CTLA ID: 13815
 Date Received: 1/2/2020
 Sample Name: 10466 Adenosylcobalamin USP (Vitamin B-12)
 Lot Number: 21102
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
D, Rapid Complete Micro Combo				
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
*FTIR Spectra	FTIR	Report	Attached	

1/6/2020
DATE


Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 65457
 Date Received: 1/4/2023
 Sample Name: 10466 DRM Adenosylcobalamin USP (100%)
 Lot Number: 21102
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Vitamin B12 (Adenosylcobalamin)	HPLC	0.227 Report	82.629	%

Amended report: Tests removed

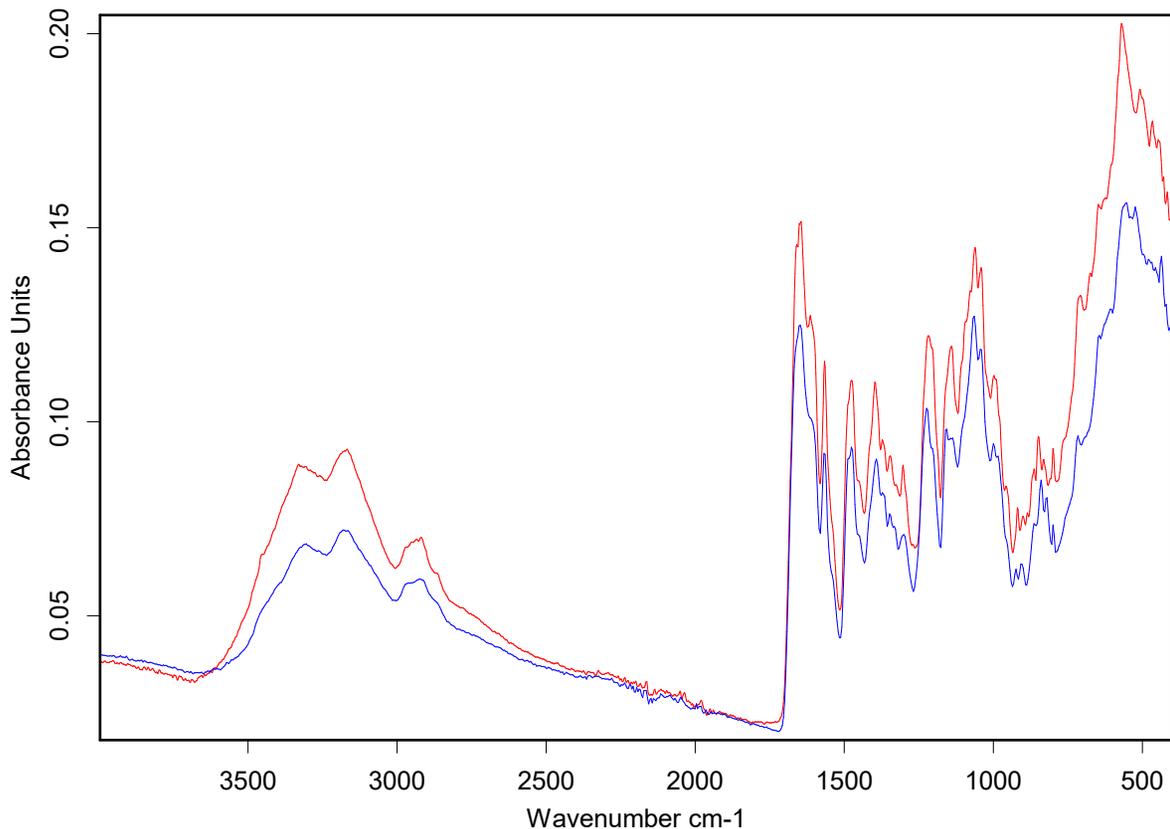
1/13/2023

DATE



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Product Number	ON 10466 Adenosylcobaolaniu Z1102 Standa
Entry No.	1866
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
	925	ON 10466 Adenosylcobaolaniu Z1102 Standard 3			

Color	File	Path	Spectrum Type
	65457-ON 10466 DRM Adenosylcobalamin USP (100%) (21	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum



creative
compounds

Certificate of Analysis

Product Name: Methylcobalamin (Pure Vitamin B12)
Batch Number: MCB1902002
Manufacturing Date: February, 2019
Re-Test Date: January, 2024
Country of Origin: China

Item	Standard	Result	Method
Appearance	Dark red crystals or crystalline powder	Dark red crystals or crystalline powder	Visual
Identification 1 UV-VIS spectrum pH2 UV-VIS spectrum pH7	Conforms to standard Conforms to standard	Conforms to standard Conforms to standard	UV
Identification 2	Positive	Positive	Chemistry
Clarity and Color of Solution	The solution is clear and red in color	The solution is clear and red in color	JPXVII
Solubility	It is sparingly soluble in water. Slightly soluble in ethanol (99.5%) and practically insoluble in acetonitrile. It is affected by light.	It is sparingly soluble in water. Slightly soluble in ethanol (99.5%) and practically insoluble in acetonitrile. It is affected by light.	JPXVII
Related Substances	≤2.0%	1.53%	HPLC
Individual Impurities	≤0.5%	0.37%	HPLC
Water	≤12.0%	10.43%	K.F
Assay (on anhydrous basis)	98.0% ~ 101.0%	98.32%	HPLC
Residual Solvent Acetone	NMT 5000 ppm	2171 ppm	GC
Total Plate Count (Membrane filtration)	≤100 cfu/g	≤1 cfu/g	JPXVII
Staphylococcus Aureus	Negative	Negative	JPXVII
Salmonella	Negative	Negative	JPXVII
E. Coli	Negative	Negative	JPXVII
Bacillus Cereus	Negative	Negative	JPXVII
As	≤2 ppm	Not detected	JPXVII
Pb	≤0.5 ppm	Not detected	JPXVII
Hg	≤0.1 ppm	≤0.1 ppm	JPXVII
Cd	≤2.0 ppm	≤2.0 ppm	JPXVII

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.

CTLA ID: 36292
 Date Received: 7/26/2021
 Sample Name: 10325 DRM Vitamin B-12 Methylcobalamin 100%
 Lot Number: 37430
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
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
Vitamin B12 (Methylcobalamin)	HPLC		>98.5	97.354 *	%

8/6/2021

DATE



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Certificate of Analysis

Sample Information

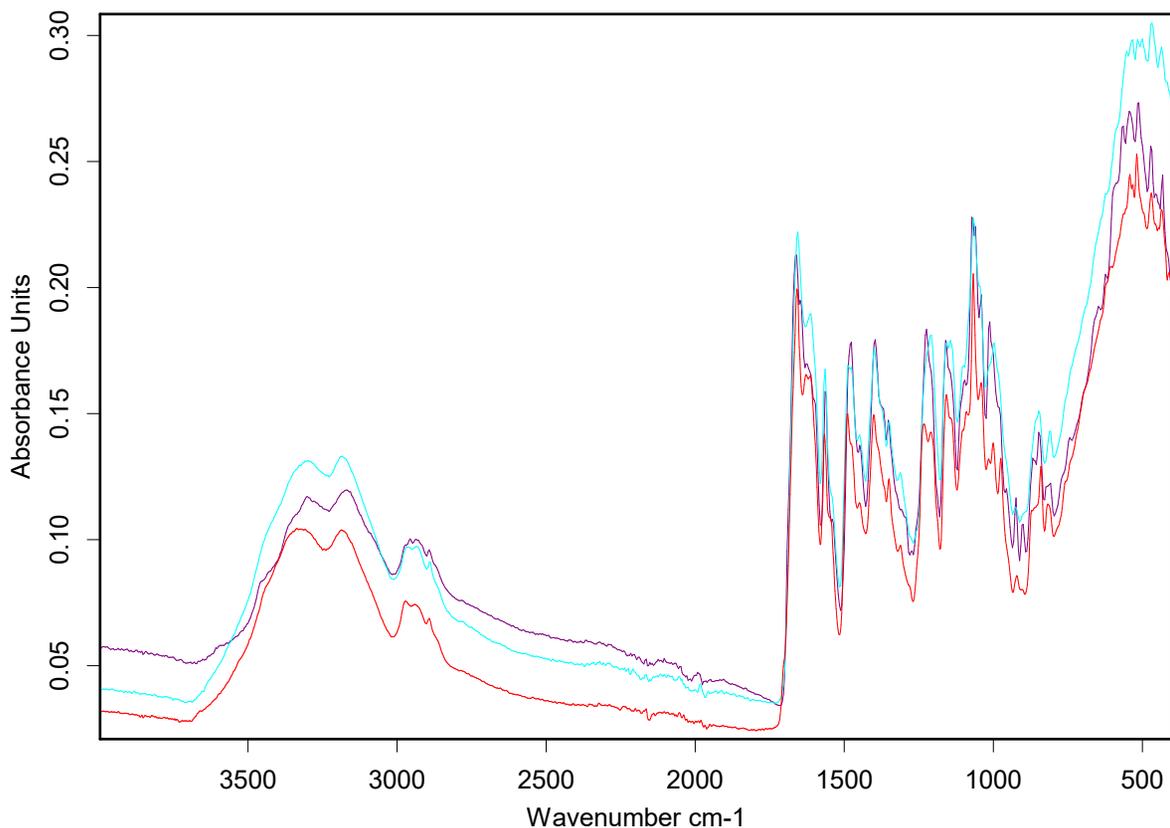
CTLA ID: 65455
 Date Received: 1/4/2023
 Sample Name: 10325 DRM Vitamin B-12 Methylcobalamin 100%
 Lot Number: 37430
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Vitamin B12 (Methylcobalamin)	HPLC	0.219 Report	95.265	%

1/12/2023
DATE


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Product Number	10325 Methylcobalamin 100% 961 Standard 2
Entry No.	503
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
Cyan	936	10325 Methylcobalamin 100% 61381 Standard 1			
Purple	898	10325 Methylcobalamin 100% 961 Standard 2			

Color	File	Path	Spectrum Type
Red	36292-ON 10325 DRM Vitamin B-12 Methylcobalamin 100%	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS New New	Query Spectrum

CERTIFICATE of ANALYSIS

Product: Zinc Picolinate 20%

Product ID: ZINCP1002-F0001

CAS: 17949-65-4

Batch: 20200524

Origin: China

Production Date: 05/24/2020

Analysis Date: 05/24/2020

Expiration Date: 05/23/2022

Physical/Chemical Control	Specification	Result	Test Method
Appearance	Powder	Conforms	Visual
Assay	Zinc (Zn): 20.0 - 23.0% (Dried Basis)	20.3%	Volometric/ICP
Color	White	Conforms	Visual
Identification	FTIR: Positive	Conforms	FTIR
Loss on Drying	≤ 2.5%	0.6%	USP
Odor	Characteristic	Conforms	Olfactory
Particle/Mesh Size	60 mesh: ≥ 95%	96.5%	Mesh Screen
pH	5.0 - 8.0	7.0	USP

Heavy Metal Control

Arsenic (As)	≤ 1 ppm	0.1 ppm	ICP-MS
Cadmium (Cd)	≤ 1 ppm	0.1 ppm	ICP-MS
Lead (Pb)	≤ 1 ppm	0.38 ppm	ICP-MS
Mercury (Hg)	≤ 0.3 ppm	0.1 ppm	ICP-MS

Microbiological Control

E. coli	Negative/10 g	Conforms	USP <1022>
Salmonella	Negative/10 g	Conforms	USP <1022>
Staphylococcus	Negative/10 g	Conforms	USP <1022>
Total Plate Count	≤ 5,000 cfu/g	20 cfu/g	USP <1021>
Yeast & Mold	≤ 100 cfu/g	20 cfu/g	USP <1021>

Starting Material(s):

Picolinic aci, Zinc oxide

Storage:

Keep in sealed container and under 25°C. Keep away from direct sunlight and moisture

Conclusion:

Product Conforms to Specifications

Reviewed By:

Marcia Zhang
Marcia Zhang

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Contract TESTING Laboratories

OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 20131
 Date Received: 8/7/2020
 Sample Name: 10536 Zinc Picolinate 20%
 Lot Number: 27991
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
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
Mineral Analysis	ICP	.001	>20	Zinc 20.700	%

8/12/2020

DATE



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Certificate of Analysis

Sample Information

CTLA ID: 31182
 Date Received: 4/30/2021
 Sample Name: 10536 Zinc Picolinate 20%
 Lot Number: 27991
 Customer: Origin Nutraceutical

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

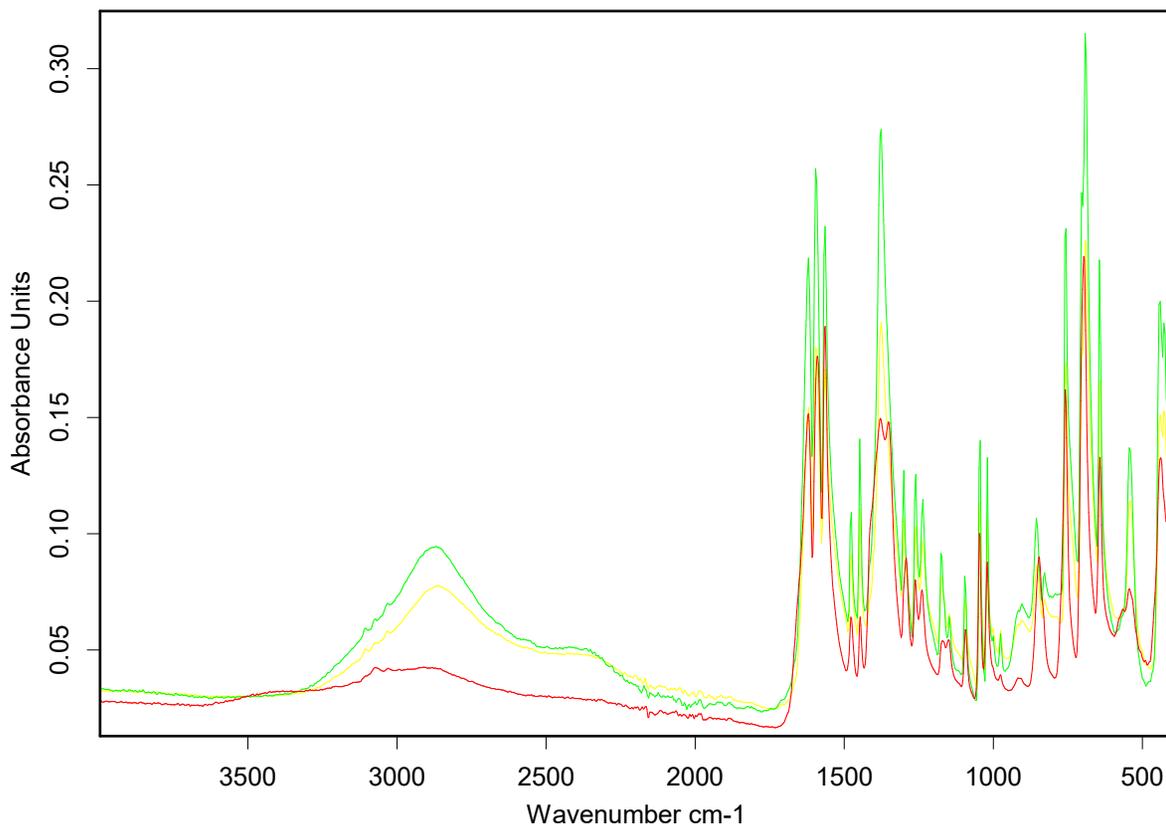
5/4/2021

DATE



Quality Manager

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Product Number	ON 10536 DRM Zinc Picolinate 20% 20583 Sta
Entry No.	1828
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
Green	857	10536 Zinc Picolinate 20% 3392 Standard 1			
Yellow	837	ON 10536 DRM Zinc Picolinate 20% 20583 Standard 2			

Color	File	Path	Spectrum Type
Red	20131- ON 10536 DRM Zinc Picolinate 20% (27991).1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS New New	Query Spectrum