



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

CERTIFICATE OF ANALYSIS AND QUALITY

Product	Vitality Geroprotector
SKU	VITALITY
Barcode	866033000277
Formula	2
Date	10 August 2023

Label

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

Use: Take 2 capsules up to 4 times daily with meals, for a total of 2 to 8 capsules daily.

Storage: Keep cool and dry, away from children.

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



**VITALITY
GEROPROTECTOR**

Formula 2

Supports Healthy Cell Function
and Metabolism for Better Aging*

**Dietary Supplement
60 CAPSULES**

Supplement Facts

Serving Size 2 Capsules
Servings Per Container 30

Amount Per Serving	% Daily Value
Berberine Hydrochloride 500 mg	†
Blueberry Fruit Extract 240 mg (Mirtoselect® 36% Anthocyanin)	†
Coenzyme Q10 50 mg (Ubiquinone)	†
Milk Thistle Fruit Extract 100 mg (80% Silymarin)	†

† Daily Value Not Established

Other Ingredients: Cellulose, MCT Oil, Silicon Dioxide,
Sodium Stearyl Fumarate

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

Certifications
Letter of Guarantee
Good Manufacturing Practice (GMP) 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 MCT Oil Certificate of Analysis from Supplier
Excipient MCT 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 Sodium Stearyl Fumarate Certificate of Analysis from Supplier
Excipient Sodium Stearyl Fumarate Certificate of Analysis from Third-Party Testing
Berberine Certificate of Analysis from Supplier
Berberine Certificate of Analysis from Third-Party Testing
Blueberry Certificate of Analysis from Supplier
Blueberry Certificate of Analysis from Third-Party Testing
Coenzyme Q10 Certificate of Analysis from Supplier
Coenzyme Q10 Certificate of Analysis from Third-Party Testing
Milk Thistle Certificate of Analysis from Supplier
Milk Thistle Certificate of Analysis from Third-Party Testing



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10 August 2023

RE: Letter of Guarantee for Thrivous Vitality Geroprotector

To whom it may concern,

The undersigned, Lincoln Cannon LLC DBA Thrivous (“Thrivous”), hereby guarantees as follows regarding Vitality Geroprotector (“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 blue 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

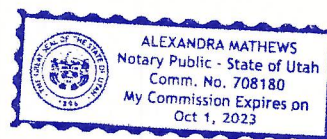
State of Utah, County of Salt Lake.

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

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





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:*

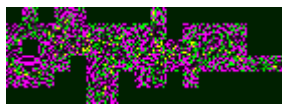
ISO/IEC 17025:2017

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):

Chemical and Microbiological Testing
(As detailed in the supplement)

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

For PJLA:



Tracy Szerszen
President

Initial Accreditation Date:

March 31, 2021

Issue Date:

March 24, 2023

Expiration Date:

June 30, 2025

Accreditation No.:

102267

Certificate No.:

L23-261

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

*The validity of this certificate is maintained through ongoing assessments based on a
continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjllabs.com*



Certificate of Accreditation: Supplement

Contract Testing Laboratories of America

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

Contact Name: Brescia Eppley 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
Microbiological ^F	Food, Cosmetic, Supplemental, and Nutraceutical	Aerobic Plate Count	AOAC 990.12	10 CFU/g
		<i>Escherichia Coli</i> and Total Coliforms	AOAC 991.14	
		<i>Enterobacteriaceae</i>	AOAC 2003.01	
		Yeast and Mold	AOAC 2014.05	
		<i>Escherichia Coli</i> and Total Coliforms	AOAC 2018.13	
		Aerobic Plate Count	FDA BAM Ch. 3	
		<i>Escherichia Coli</i> and Total Coliforms	FDA BAM Ch. 4	Presence or Absence
		<i>Salmonella</i>	FDA BAM Ch. 5	
		<i>Listeria Monocytogenes</i>	FDA BAM Ch. 10	
		<i>Staphylococcus Aureus</i>	FDA BAM Ch. 12	
		Yeast and Mold	FDA BAM Ch. 18	100 CFU/g
		Yeast and Mold, Aerobic Plate Count	USP 2021	
		<i>Escherichia Coli</i> , <i>Staphylococcus Aureus</i> , <i>Salmonella</i> , <i>Listeria Monocytogenes</i>	USP 2022	Presence or Absence
		Aerobic Plate Count, Total Coliform, Yeast and Mold	USP <61>	
		<i>Escherichia Coli</i> , <i>Staphylococcus Aureus</i> , <i>Salmonella</i>	USP <62>	Presence or Absence



Certificate of Accreditation: Supplement

Contract Testing Laboratories of America

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

Contact Name: Brescia Eppley Phone: 385-477-4999

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Chemical ^F	Food, Cosmetic, Supplemental, and Nutraceutical	Arsenic, Cadmium, Lead, Mercury	USP <233>	LOD of As = 8 ppt LOD of Cd = 4 ppt LOD of Pb = 4 ppt LOD of Hg = 4 ppt
		pH	USP <791>	LOQ = 0.01 %
		Caffeine	CTLA: M061	LOQ = 0.000 2907 %
		Cannabinoids: Total Cannabidiol (CBD) Total Tetrahydrocannabinol (THC) CBD CBDA Δ9-THC THCA Δ8-THC THCV CBDV CBDVA CBGA CBG CBN CBC CBL	CTLA: M052	LOQ = 0.062 5 %
		Mineral Analysis: Chromium (Cr) Iron (Fe) Magnesium (Mg) Zinc (Zn)	CTLA: M068	LOD for Mg, Fe, and Zn = 5.000 ppb LOD for Cr = 0.500 ppb

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	79964	Sample Name	Vitality
Customer	Thrivous	Lot Number	2316301
Date Received	7/27/2023	Date Complete	8/1/2023
Customer Address:	PO Box 4078 #73216, SLC UT 84110		

ANALYSIS	SPECIFICATION	RESULT	METHOD	MDL	UNITS
Rapid Complete Micro					
Total Plate Count	Report	<100	USP<2021>	100	cfu/g
Total Coliforms	Report	<10	USP<2021>	10	cfu/g
E. coli	Report	Absent	USP<2022>		
Salmonella	Report	Absent	USP<2022>		
S. aureus	Report	Absent	USP<2022>		
Yeast & Mold	Report	<10	AOAC 2014.05	100	cfu/g
Heavy Metal					
Arsenic	Report	0.043	USP <2232>	0.001	ppm
Cadmium	Report	0.168	USP <2232>	0.001	ppm
Mercury	Report	0.181	USP <2232>	0.001	ppm
Lead	Report	0.020	USP <2232>	0.001	ppm
Berberine Hydrochloride	Report	500	By Input		mg
Blueberry Fruit Extract	Report	240	By Input		mg
Coenzyme Q10	Report	50	By Input		mg
Milk Thistle	Report	100	By Input		mg
Other Ingredients: Cellulose, MCT Oil, Silicon Dioxide, Sodium Stearyl Fumarate					

COA Note:

Approved By:

Date:

8/1/2023



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 202
Spanish Fork, UT 84660





SUHEUNG CO., LTD.
61, Osongsaengmyeong-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea 28161

ORIGINAL

CERTIFICATE OF ANALYSIS

Issued date : Feb. 27, 2023

Product Description Empty Hard Capsule From Hypromellose (HPMC)

Customer :	SUHEUNG-AMERICA	U.S.A	Manufacturing Date :	Nov. 10, 2022
Capsule Type :	EMBO CAPS*	VG-Pro "Kosher and Halal Certified"	Expiration Date :	Nov. 09, 2027
Capsule Item No. :	VPOA051A051		Quantity :	15,500,000 PCS (155 Cartons)
Lot Number :	VPOA051A051 - 223825		Carton No. :	1 - 155
Product Size :	0			
Product Code :		CAP	BODY	
	Color	A051 (CLEAR)	A051 (CLEAR)	

Composition

Cap	Hypromellose	qsp 100	Body	Hypromellose	qsp 100
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Analytical Results

Test Items		Unit	Standard	Results	Test Method
Length	Cap	mm	10.3 ~ 11.1	10.7	In-house Spec.
	Body	mm	18.0 ~ 18.8	18.4	In-house Spec.
Weight		mg	84.6 ~ 105.4	95.0	In-house Spec.
Identification of Hypromellose*			Positive	Positive	USP/EP
Disintegration		min/sec	NMT 15	13'50"	USP/EP
Loss on Drying		%	3.0~7.0	5.9	USP/EP
Residue on Ignition (Ash)*		%	NMT 3.0	0.7	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.

Elemente	Unit	Acceptance level
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

Ingredients Name	E.Nr	CI.Nr	Function	Regulatory Reference
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.

J 24/27

Quality Assurance Manager

* ORDER NO. HC7029

Suheung Co., Ltd.
Plant : 61, Osongsaengmyeong-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea 28161
Office: Suheung Bldg. 40, Janghan-ro, Dongdaemun-gu, Seoul, Korea 02643
Plant +82-43-249-4200 Office +82-2-2210-8173~8 Inquiries@embocaps.com

Certificate of Analysis

Sample Information

CTLA ID: 76054
Date Received: 6/7/2023
Sample Name: 10032 Capsule, HPMC, 0, Clear
Lot Number: 47932
Customer: Origin Nutraceutical

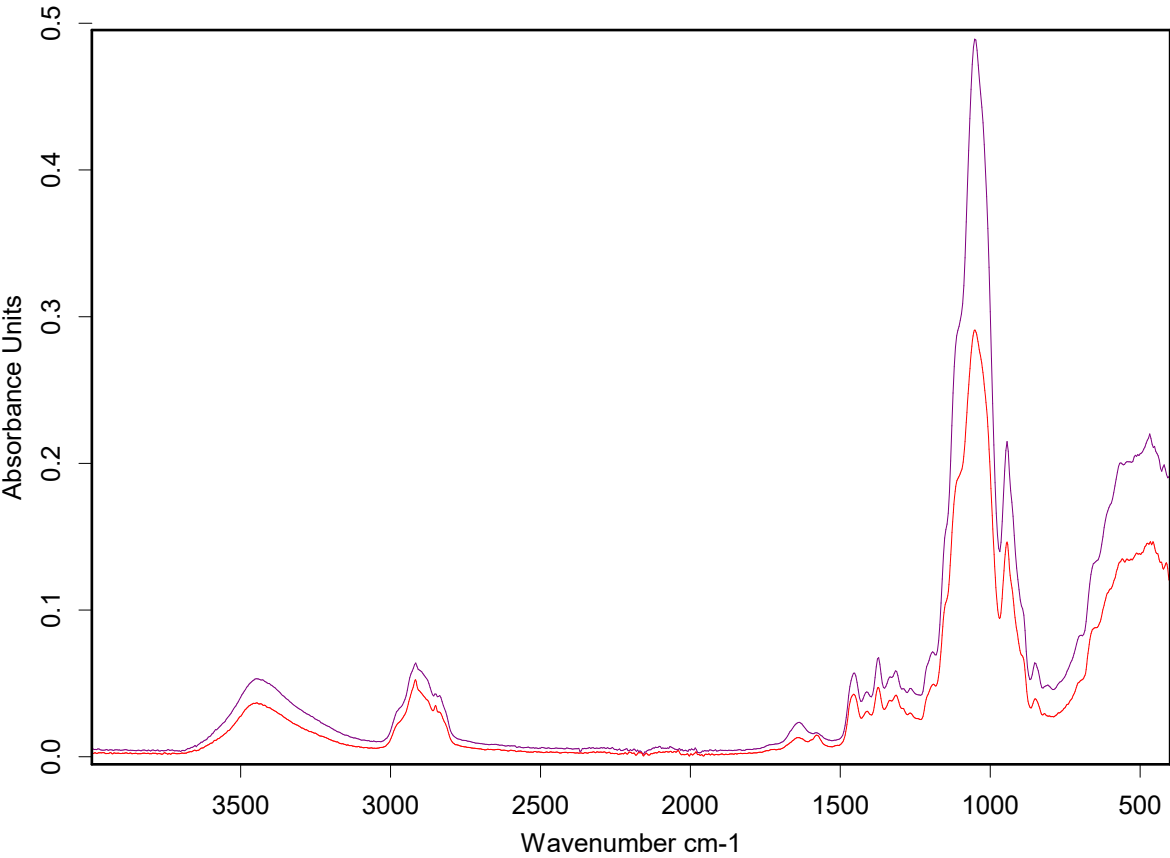
Analysis	Method	MDL Specification	Result	Units
ID	FTIR	Report	95.7	%
FTIR Spectra	FTIR	Report	Attached	

6/12/2023

DATE

Quality Manager

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Product Number	10032 Capsule HPMC0
Entry No.	131
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
	957	10032 Capsule HPMC0			

Color	File	Path	Spectrum Type
	76054-ON 10032 Capsule HPMC 0 Clear (47932).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum



Certificate of Analysis

Material#: 26154
 Material Name: MCT Oil
 Allergens: None

Batch: F060822-26154

Mfg. Date: 06/08/2022

Retest Date: 06/08/2025

Characteristic	Units	Value	Specifications	Test Method
Acid Value	mg KOH/g	0.02	Max 0.1	AOCS Te 2a-64
Saponification Value	mg KOH/g	334	Min. 325 Max. 345	AOCS TI 1a-64
Iodine Value	gI ₂ /100g	0.03	Max. 0.5	AOCS Tg 1a-64
Hydroxyl Value	mg KOH/g	3	Max. 5	AOCS Cd 13-60
Peroxide Value	meq/kg	NIL	Max. 1	AOCS Cd 8-53
C8 Caprylic Acid	%	59.1	Min. 55 Max. 65	ISO 12966-2
C10 Capric Acid	%	40.7	Min. 35 Max. 45	ISO 12966-2
C12 Lauric Acid	%	0.1	Max. 1	ISO 12966-2
Chromium	ppm	<0.05	Max. 0.05	ICPMS
Copper	ppm	<0.1	Max. 0.1	ICPMS
Lead	ppm	<0.1	Max. 0.1	ICPMS
Nickel	ppm	<0.1	Max. 0.1	ICPMS
Tin	ppm	<0.1	Max. 0.1	ICPMS
*Typical Microbial Data:				
Aerobic Plate Count	cfu/g	<10	Max. 5000	FDA-BAM
E. Coli	cfu/g	<10	Max. 10	FDA-BAM
Yeast & Mold	cfu/g	<10	Max. 100	FDA-BAM
Salmonella	cfu/g	Negative	Negative	FDA-BAM

* testing is done on an annual basis

Results Reviewed by	Results Verified by
Signature: <i>Lexi Zaremba</i>	Signature: <i>Arielle Klingenberg</i> <small>Arielle Klingenberg Jun 29, 2022 10:14 CDT</small>
Print Name: Lexi Zaremba	Print Name: Arielle Klingenberg
Date: 06/08/2022	Date: 6/29/22



Contract TESTING Laboratories

O F A M E R I C A

Certificate of Analysis

Sample Information

CTLA ID: 69969
Date Received: 3/14/2023
Sample Name: 10842 MCT Oil 100%
Lot Number: 44891
Customer: Origin Nutraceutical

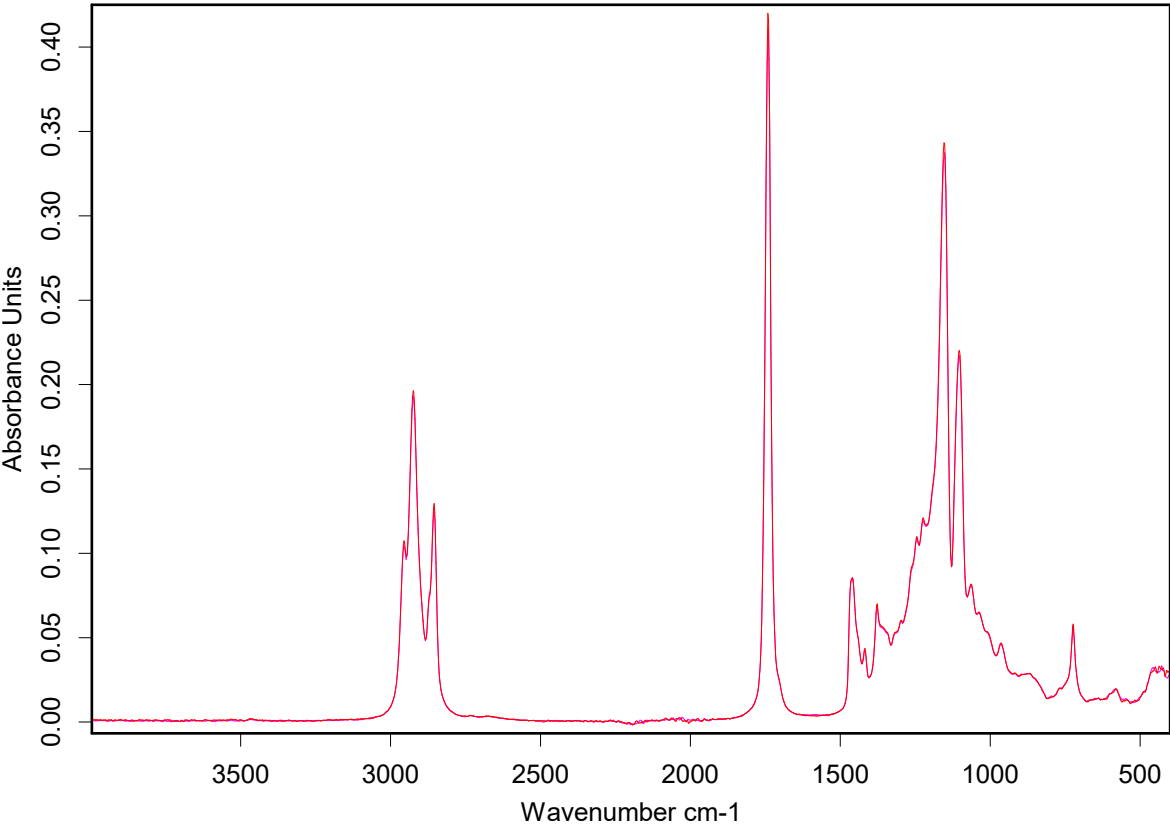
Analysis	Method	MDL Specification	Result	Units
ID, Rapid Complete Micro Combo				
ID	FTIR	Report	99.6	%
Total Plate Count	USP <2021>	100 Report	<100	cfu/g
Total Coliforms	USP <2021>	10 Report	<10	cfu/g
<i>E. coli</i>	USP <2022>	Report	Absent	
<i>Salmonella</i>	USP <2022>	Report	Absent	
<i>Staphylococcus aureus</i> <2022>	USP <2022>	Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10 Report	<10	cfu/g
FTIR Spectra	FTIR	Report		

3/16/2023

DATE

Quality Manager

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

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

Color	File	Path	Spectrum Type
	69969-ON 10842 MCT Oil 100% (44891).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	m²/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@ctltesting.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:**Sample Name:** 10030 EXC Silicon Dioxide,
Precipitated**Date Recieved:** 09/23/2022**Date Completed:** 09/28/2022**Lot Number:** 41097**COA Notes:****Chemistry Category****FTIR Spectra**

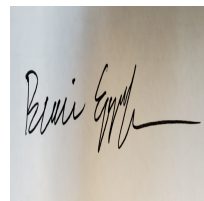
Test	Method	MDL	Specification	Result	Units
FTIR Spectra	FTIR		Report	96.3	

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Microbiology Category

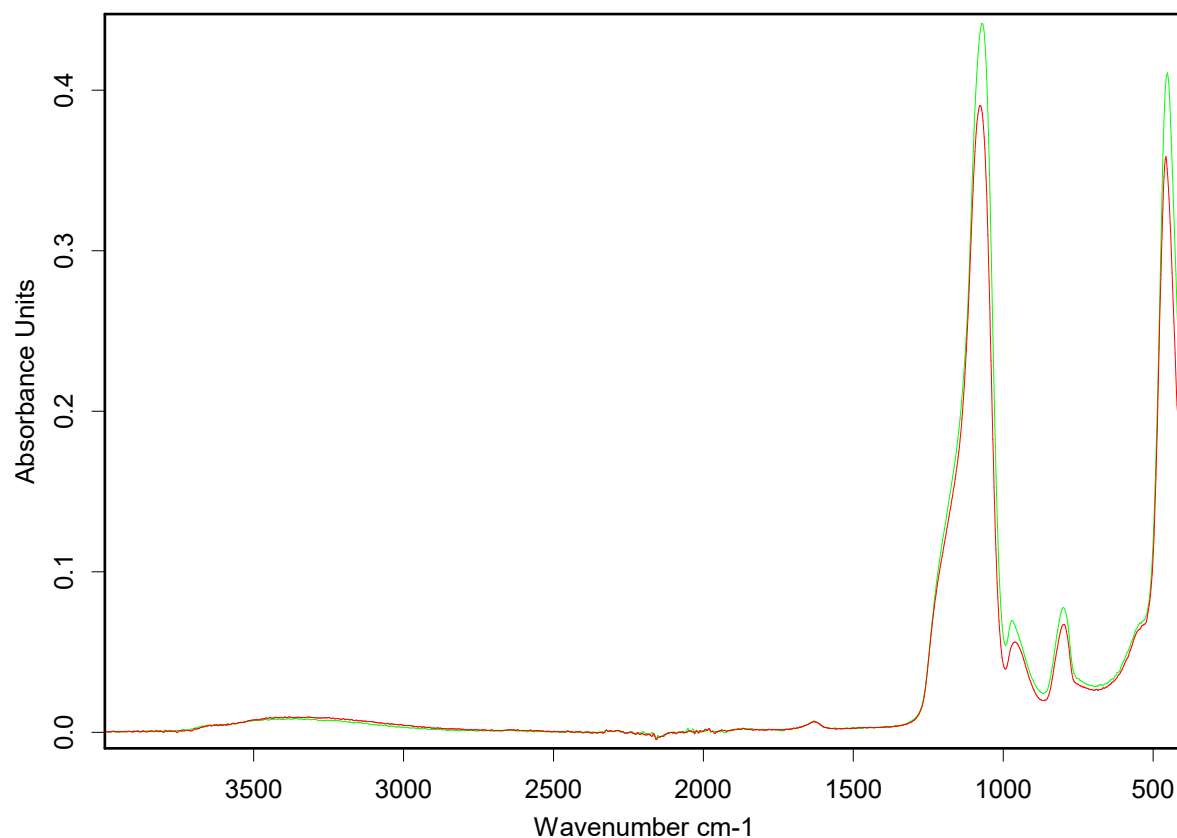
Rapid Complete Micro

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

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) ²⁾	Conforms	Conforms	Ph. Eur., NF, JPE
Water	Max. 5.0%	3.0 %	Ph. Eur., NF, JPE
Lead ¹⁾	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 ²⁾	Max. 0.25%	< 0.25 %	NF
Limit of Stearyl alcohol ²⁾	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) ¹⁾	Conforms	Conforms	JPE
Identification (2)	Responds to qualitative test (1) for sodium salt	Conforms	JPE
Arsenic ¹⁾	Max. 2 ppm	< 2 ppm	JPE
Specific Surface Area (Blaine)	1.2 - 2.0 m ² /g	1.7 m ² /g	Ph. Eur.
Residual Solvents (GC) ³⁾	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)
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ExcipientsService@JRSPharma.de www.jrspharma.com www.jrs.de
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JRS PHARMA LP

2981 Route 22, Suite 1 - Patterson, NY 12563-2359 (USA)
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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

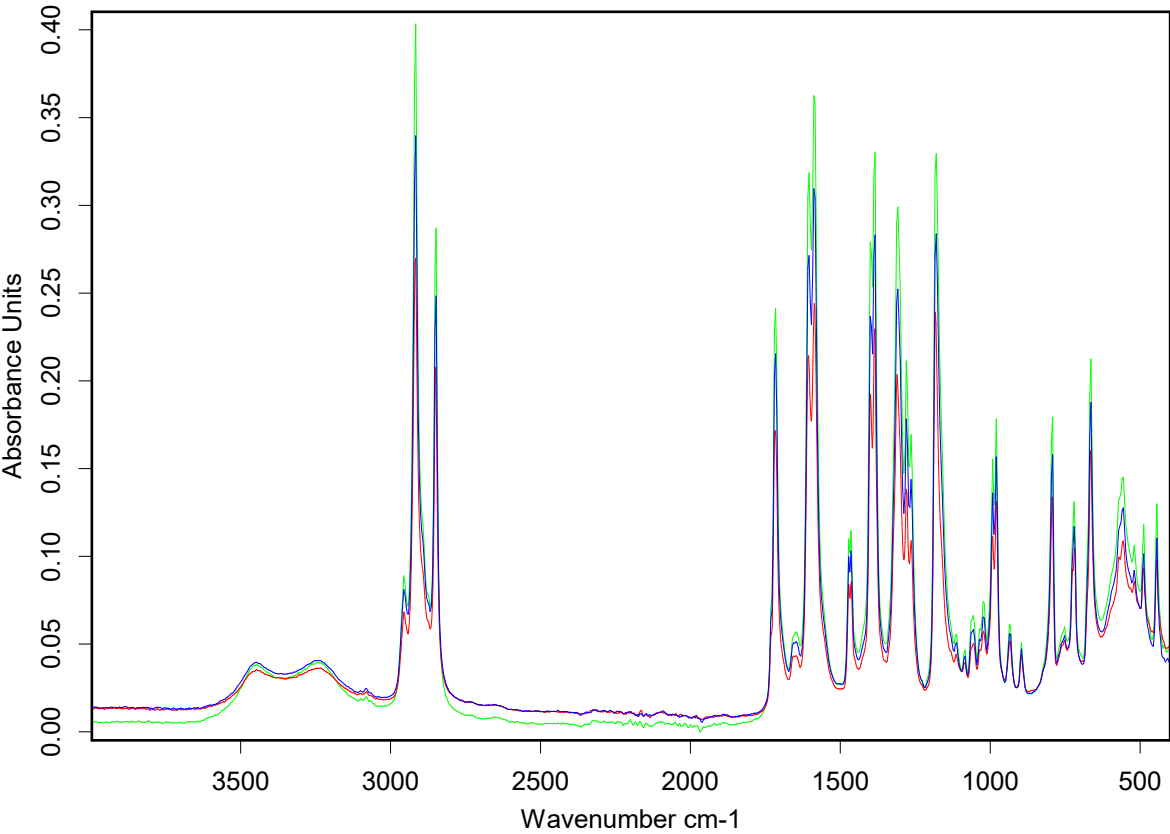
CTLA ID: 51336
Date Received: 4/27/2022
Sample Name: 10530 DRM Exc Pruv
Lot Number: 42358
Customer: Origin Nutraceutical

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
	962	45341-ON 10530 DRM EXC PRUV 40701			
	959	10530 PRUV 4862 Standard 2			

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



LA Office Phone: 1-626-538-4368 LA Office Phone: 1-626-321-0244
 Email: info@fifthnutrisupply.net Fax: 1-626-538-4373
 Fifth Nutrisupply FDA #: 11716071148

Certificate of Analysis

Berberine Extract HCL 97% Powder

Product Name	Berberine Extract HCL 97% Powder	Manufacture Date	2021-05-10
Batch Number	20210510	Expiration Date	2023-05-09
Plant Part	Bark	Origin of Country	China
Botanical Source	<i>Berberis Aristata</i>	Batch Quantity	1000 kg
Extraction Solvents	Ethanol/Water	Extraction Ratio	30:1

ANALYSIS	SPECIFICATION	RESULTS	TEST METHOD
Appearance	Yellow Powder	Yellow Powder	CP2005
(A) Color reaction A	Positive	Positive	CP2005
(B) Color reaction B	Positive	Positive	CP2005
(C) Color reaction B	Positive	Positive	CP2005
(4) IR	Complies to IR ref. Spectrum	Complies	CP2005
(5) Chloride	Positive	Positive	CP2005
Assay calculated on dried basis	>97.0%	>97.60%	Titration Method
Loss on drying	<12.0%	11.09%	CP2005
Particle size	100% through 80mesh sieve	Complies	CP2005
Residue on Ignition	<0.2%	0.11%	CP2010
Other Alkaloids	Meets Requirements	Meets requirements	CP2005
Heavy metals	<10ppm	<10ppm	CP2005
Lead (Pb)	<1ppm	<1ppm	CP2005
Arsenic (As)	<1ppm	<1ppm	CP2005
Mercury (Hg)	<0.1ppm	<0.1ppm	CP2005

Certificate of Analysis

Sample Information

CTLA ID: 42554
 Date Received: 11/24/2021
 Sample Name: 10277 DRM Berberine 97% HCL
 Lot Number: 39843
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95.4	%
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
FTIR Spectra	FTIR		Report	Attached	

Amended report: added test

2/14/2022
DATE



Quality Manager

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Contract TESTING Laboratories

O F A M E R I C A

Certificate of Analysis

Sample Information

CTLA ID: 78971
Date Received: 7/14/2023
Sample Name: 10277 Berberine
Lot Number: 39843
Customer: Origin Nutraceutical

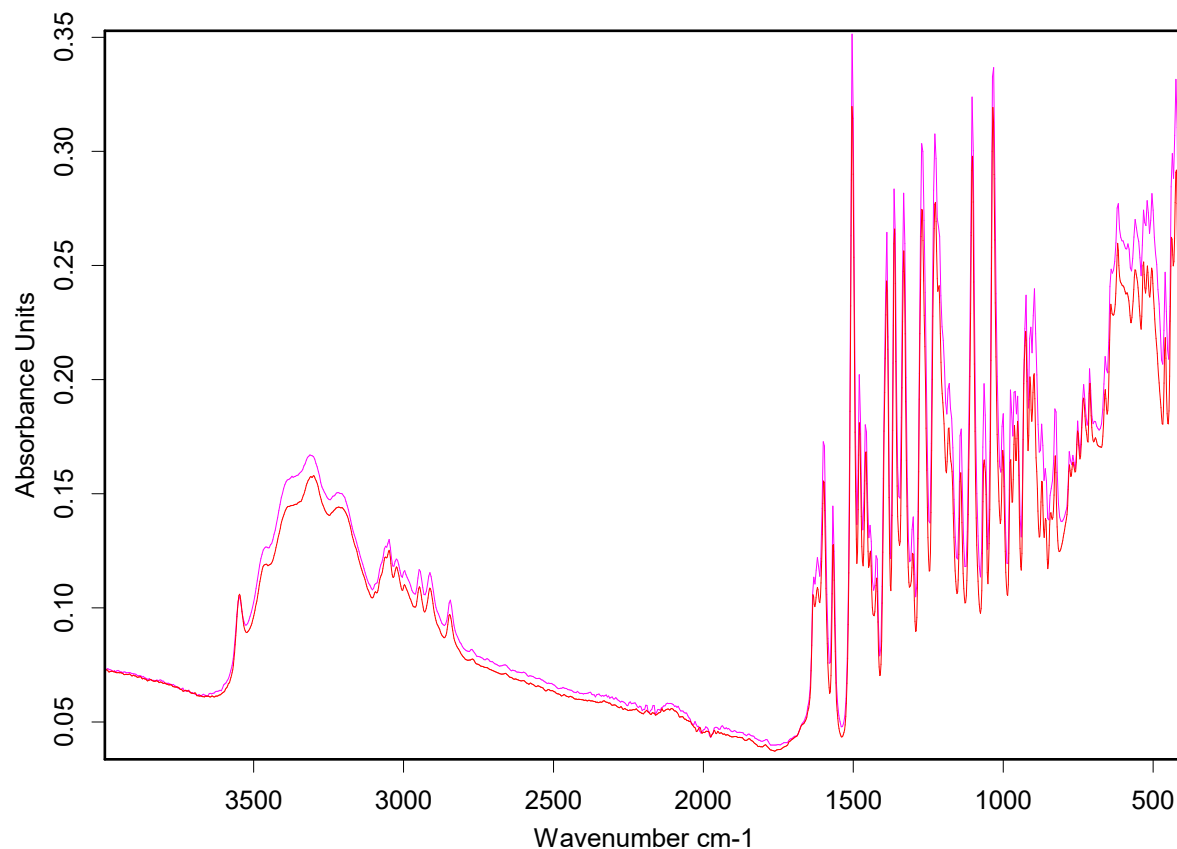
Analysis	Method	MDL Specification	Result	Units
Berberine	HPLC	0.002 Report	95.995	g/100g

7/28/2023

DATE

Quality Manager

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Product Number	10277 Berberine 97% HCL 4044 Standard 3
Entry No.	791
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
	954	10277 Berberine 97% HCL 4044 Standard 3			

Color	File	Path	Spectrum Type
	42554-ON 10277 DRM Berberine 97% HCL (39843).0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

PRODUCT : VACCINIUM MYRTILLUS DRY EXTRACT

MIRTOSELECT(R)

CODE N. : 9042202

ANALYSIS CERTIFICATE N. : 110966/3

DESCRIPTION : BILBERRY(V.MYRTILLUS)ET.EX.36%

BATCH N. : 22S0082200

MANUFACTURE DATE : 3/2022

BATCH RELEASE DATE : 4/04/2022

RETESTING DATE : 3/2025

CoA APPROVAL DATE : 4/27/2022

STARTING HERBAL MATERIAL

The starting herbal material has been identified against a crude drug standard or an authoritative literature source by botanical QC analyst.

Scientific Name: Vaccinium myrtillus L.
 English Common Name: Bilberry
 Botanical Family: Ericaceae
 Cultivated/Wild: Wild
 Part of the Plant Utilized: Fruit

PRODUCTION

Extraction Solvent: Ethanol and Water
 Drug-to-Extract Ratio: 80-130 : 1 (native extract)
 Excipients/Other Components: None
 Antioxidants/Preservatives: None
 Composition: Bilberry Fresh Frozen Fruit Dry Extract, Refined and Standardised

DETERMINATION	RESULTS	SPECIFICATIONS	U.M.
HPLC CONTENTS	37.1	>= 36.0	%
Assay of total anthocyanosides According to TM/0334			
HPLC CONTENTS	0.29	<= 1.0	%
Assay of anthocyanidins According to TM/0334			
CHARACTERS/APPEARANCE	Complies	Dark red-violet powder	
SOLUBILITY in acetone According to Ph. Eur./USP	Complies	Practically insoluble	
SOLUBILITY in chloroform According to Ph. Eur./USP	Complies	Practically insoluble	
SOLUBLE SUBSTANCES in hydrochloric acid 0.1N According to TP-001	95.9	>= 95.0	%
TLC IDENTIFICATION According to TP-002	Complies	Complies	
TAPPED DENSITY According to Ph. Eur. 2.9.34.	0.86	For Information Only	g/ml

CODE N. : 9042202

ANALYSIS CERTIFICATE N. : 110966/3

DETERMINATION	RESULTS	SPECIFICATIONS	U.M.
PARTICLE SIZE	98	>= 80	%
Pass 200 um (#75 Mesh)			
According to TM/0314			
PARTICLE SIZE	82	>= 60	%
Pass 100 um (#150 Mesh)			
According to TM/0314			
SULPHATED ASH	0.7	<= 3.0	%
According to Ph. Eur. 2.4.14.			
WATER (K. Fischer)	2.9	<= 4.5	%
According to Ph. Eur. 2.5.12.			
Method A			
ARSENIC	0.1	<= 1.0	ppm
ICP-MS - According to TM/0412			
LEAD	0.1	<= 1.0	ppm
ICP-MS - According to TM/0412			
CADMIUM	0.002	<= 0.2	ppm
ICP-MS - According to TM/0412			
MERCURY	0.003	<= 0.10	ppm
ICP-MS - According to TM/0412			
RESIDUAL ORGANIC SOLVENTS			
According to SR2C			
Ethanol	0.02	<= 0.5	%
MICROBIOLOGICAL CONTROL			
According to harmonized EP,			
USP and JP regulations			
(Ph. Eur. 2.6.12. and 2.6.13.)			
TAMC TOTAL AEROBIC MICROBIAL COUNT	350	<= 5000	CFU/g
TYMC TOTAL COMBINED YEASTS/MOULDS COUNT	< 10	<= 500	CFU/g
BILE-TOLERANT GRAM-NEGATIVE BACTERIA	Absent	<= 100	CFU/g
ESCHERICHIA COLI	Absent	Absent	/10g
SALMONELLA	Absent	Absent	/10g
PSEUDOMONAS AERUGINOSA	Absent	Absent	/g
STAPHYLOCOCCUS AUREUS	Absent	Absent	/10g
PESTICIDES DETERMINATION	Complies	Complies	
Listed in USP <561>			
According to TP-005			

PRINTING DATE 4/27/2022 This is a computer print of the analysis certificate
which has been undersigned on the original and is valid
without signature

Certificate of Analysis

Sample Information

CTLA ID: 74977
 Date Received: 5/23/2023
 Sample Name: 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
 Lot Number: 48444
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	96.8	%
Total Aerobic Microbial 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	0.096	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
Pesticides (59)					
Abamectin	LCMS	.01	Report	ND	µg/g
Acephate	LCMS	.01	Report	ND	µg/g
Acequinocyl	LCMS	.01	Report	ND	µg/g
Acetamiprid	LCMS	.01	Report	ND	µg/g
Aldicarb	LCMS	.01	Report	ND	µg/g
Azoxystrobin	LCMS	.01	Report	ND	µg/g
Bifenazate	LCMS	.01	Report	ND	µg/g
Bifenthrin	LCMS	.01	Report	ND	µg/g
Boscalid	LCMS	.01	Report	ND	µg/g
Carbaryl	LCMS	.01	Report	ND	µg/g
Carbofuran	LCMS	.01	Report	ND	µg/g

6/12/2023

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



Contract TESTING Laboratories

OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 74977
 Date Received: 5/23/2023
 Sample Name: 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
 Lot Number: 48444
 Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
Chlorantraniliprole	LCMS	.01 Report	ND	µg/g
Chlorfenapyr	LCMS	.01 Report	ND	µg/g
Chlorpyrifos	LCMS	.01 Report	ND	µg/g
Clofentezine	LCMS	.01 Report	ND	µg/g
Cyfluthrin	LCMS	.01 Report	ND	µg/g
Cypermethrin	LCMS	.01 Report	ND	µg/g
Daminozide	LCMS	.01 Report	ND	µg/g
DDVP (Dichlorvos)	LCMS	.01 Report	ND	µg/g
Diazinon	LCMS	.01 Report	ND	µg/g
Dimethoate	LCMS	.01 Report	ND	µg/g
Ethoprophos	LCMS	.01 Report	ND	µg/g
Etofenprox	LCMS	.01 Report	ND	µg/g
Etoxazole	LCMS	.01 Report	ND	µg/g
Fenoxycarb	LCMS	.01 Report	ND	µg/g
Fenpyroximate	LCMS	.01 Report	ND	µg/g
Fipronil	LCMS	.01 Report	ND	µg/g
Flonicamid	LCMS	.01 Report	ND	µg/g
Fludioxonil	LCMS	.01 Report	ND	µg/g
Hexythiazon	LCMS	.01 Report	ND	µg/g
Imazal	LCMS	.01 Report	ND	µg/g
Imidacloprid	LCMS	.01 Report	ND	µg/g
Kresoxim-methyl	LCMS	.01 Report	ND	µg/g
Malathion	LCMS	.01 Report	ND	µg/g
Metalaxyl	LCMS	.01 Report	ND	µg/g
Methiocarb	LCMS	.01 Report	ND	µg/g
Methomyl	LCMS	.01 Report	ND	µg/g

6/12/2023

DATE

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Certificate of Analysis

Sample Information

CTLA ID: 74977
 Date Received: 5/23/2023
 Sample Name: 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
 Lot Number: 48444
 Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Methyl parathion	LCMS	.01	Report	ND	µg/g
MGK-264	LCMS	.01	Report	ND	µg/g
Myclobutanil	LCMS	.01	Report	ND	µg/g
Naled	LCMS	.01	Report	ND	µg/g
Oxamyl	LCMS	.01	Report	ND	µg/g
Paclobutrazol	LCMS	.01	Report	ND	µg/g
Permethrins	LCMS	.01	Report	ND	µg/g
Phosmet	LCMS	.01	Report	ND	µg/g
Piperonyl_butoxide	LCMS	.01	Report	ND	µg/g
Prallethrin	LCMS	.01	Report	ND	µg/g
Propiconazole	LCMS	.01	Report	ND	µg/g
Propoxur	LCMS	.01	Report	ND	µg/g
Pyrethrins	LCMS	.01	Report	ND	µg/g
Pyridaben	LCMS	.01	Report	ND	µg/g
Spinosad	LCMS	.01	Report	ND	µg/g
Spiromesifen	LCMS	.01	Report	ND	µg/g
Spirotetramat	LCMS	.01	Report	ND	µg/g
Spiroxamine	LCMS	.01	Report	ND	µg/g
Tebuconazole	LCMS	.01	Report	ND	µg/g
Thiacloprid	LCMS	.01	Report	ND	µg/g
Thiamethoxam	LCMS	.01	Report	ND	µg/g
Trifloxystrobin	LCMS	.01	Report	ND	µg/g
FTIR Spectra	FTIR		Report	Attached	
HPTLC	HPTLC		Report	Characteristic	

6/12/2023

DATE

Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 74977
Date Received: 5/23/2023
Sample Name: 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
Lot Number: 48444
Customer: Origin Nutraceutical

Analysis	Method	MDL Specification	Result	Units
----------	--------	-------------------	--------	-------

ND= None Detected

Amended report: added tests

HPTLC: Fingerprint of test solution is consistent with reference standard *vaccinium myrtillus* (bilberry extract).

6/12/2023

DATE

Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 76173
Date Received: 6/8/2023
Sample Name: 11234 Billbery Extract 36% (Anthocyanidins)
Lot Number: 48444
Customer: Origin Nutraceutical

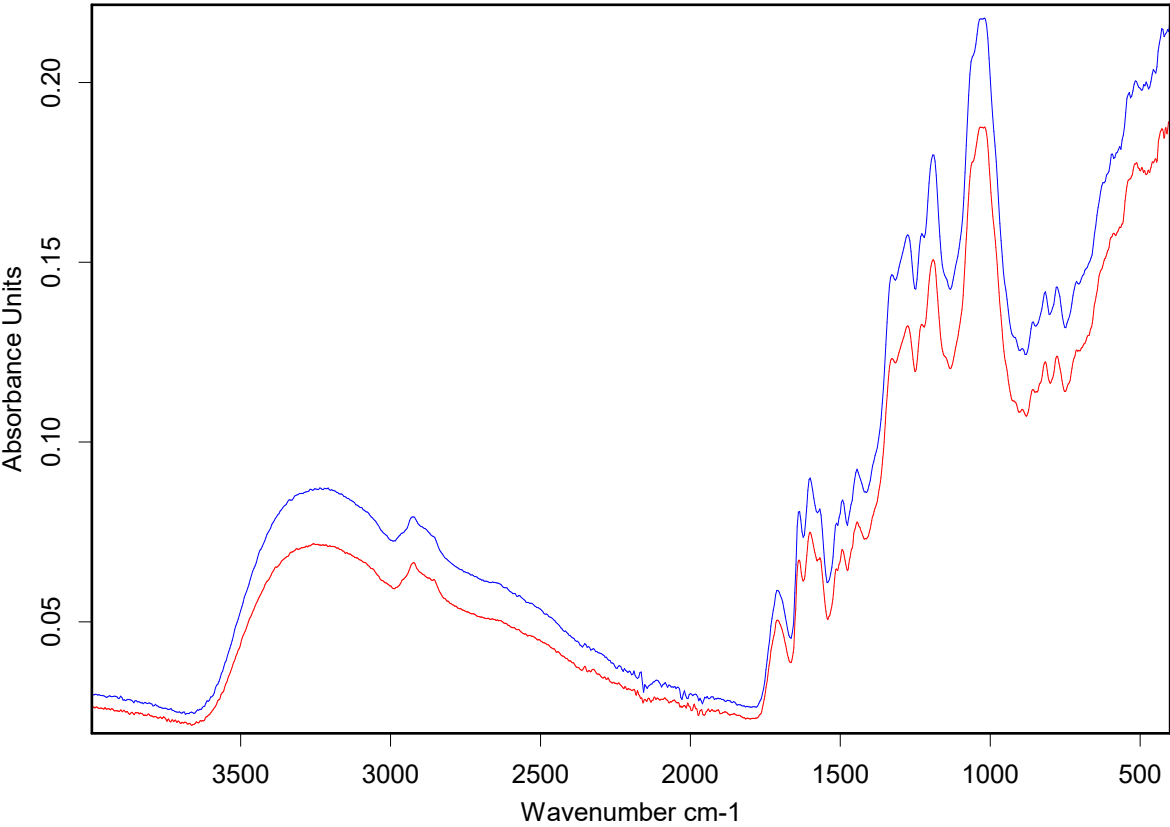
Analysis	Method	MDL Specification	Result	Units
Anthocyanidins	UV-Vis	0.002 Report	82.4	%

7/12/2023

DATE

Quality Manager

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Product Number	ON 11234 DRM Bilberry Fruit Extract (Mirtose)
Entry No.	2784
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	968	ON 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% (43219) Standard 1			

Color	File	Path	Spectrum Type
	74977-ON 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% (43219) Standard 1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

6439 Alondra Blvd, Paramount, CA 90723, USA
Tel (562) 633 8985, Fax (562) 633 8986
Website: nutrilandgroup.com
Email: nutrilandgroup@outlook.com



Nutriland Group, Inc

Certificate of Analysis

Product:	Co-Enzyme Q ₁₀ (Ubiquinone)		
Batch:	SZFQ200299		
Manufacturing Date:	February 2021	Retesting Date:	February 2024
Source:	Glucose from corn		
CAS:	303-98-0		

Content	Specification	Results	Methods
Appearance:	Orange Crystalline powder	Conforms	Visual
Particle Size:	80 mesh	Conforms	80 mesh screen
Chemical Formula:	C ₅₉ H ₉₀ O ₄		
Identification:	Positive	Conforms	USP
Assay:	≥99%	99.1%	USP
Loss on Drying:	<0.5%	0.01%	USP
Melting Point:	48°C - 52°C	51-52°	
Solubility:	Insoluble in water	Conforms	
Chromatograph Purity:	Impurities <1.0%	Conforms	USP
Heavy Metals:	<10 ppm	Conforms	USP
Arsenic:	<1 ppm	Conforms	USP
Cadmium:	<0.5 ppm	Conforms	USP
Lead:	<0.5 ppm	Conforms	USP
Mercury:	<0.1 ppm	Conforms	USP
Total Plate Count:	<1,000 cfu/g	Conforms	USP
Mold & Yeast:	<50 cfu/g	Conforms	USP
Coliforms:	<3 cfu/g	Conforms	USP
E. Coli:	Negative	Conforms	USP
Salmonella:	Negative	Conforms	USP
Staphylococcus Aureus:	Negative	Conforms	USP

GMO Statement:	Non-GMO
Standard:	USP food grade
Treatment:	None
Manufacturing Method:	Fermented

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Digitally Signed By QC Director:

Michael Ma

Certificate of Analysis

Sample Information

CTLA ID: 42048
Date Received: 11/17/2021
Sample Name: 10625 DRM CoQ10 100%
Lot Number: 39688
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	97.0	%
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	
CoEnzyme Q10	HPLC	0.002	Report	100.600	%

11/23/2021
DATE



Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 78970
Date Received: 7/14/2023
Sample Name: 10625 CoQ10
Lot Number: 39688
Customer: Origin Nutraceutical

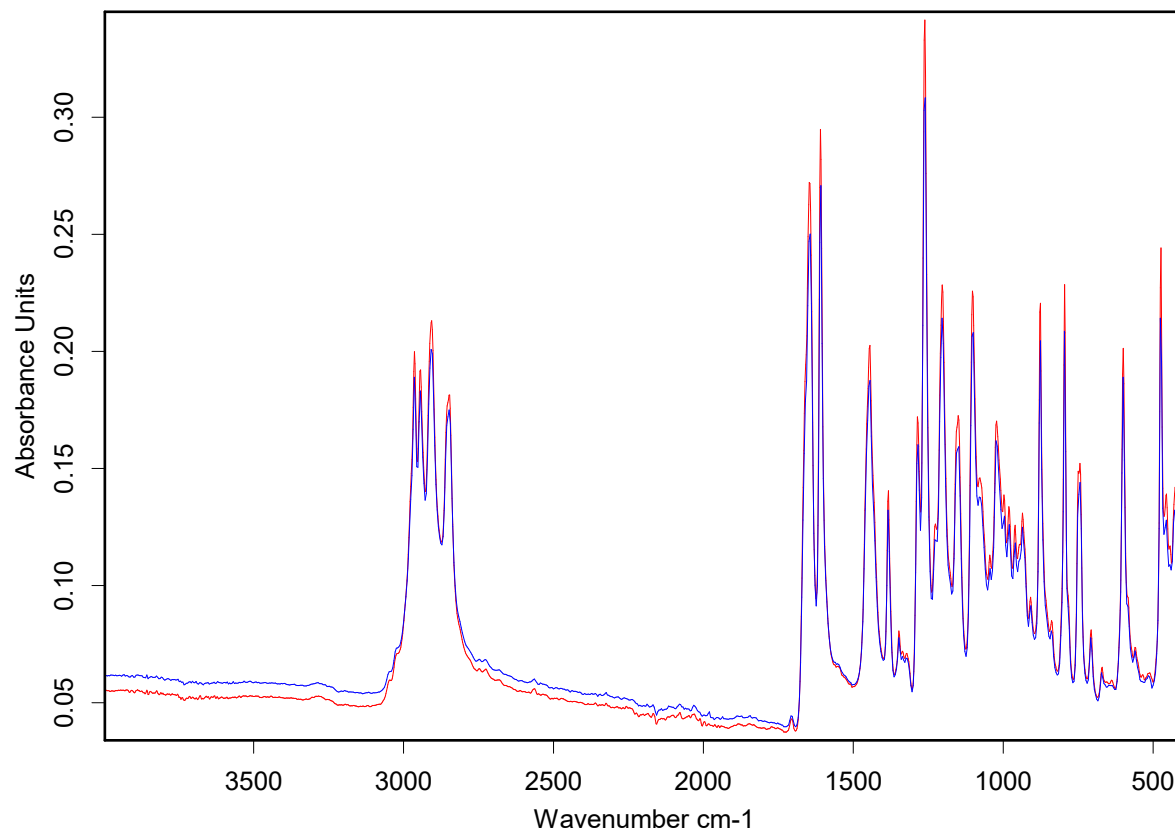
Analysis	Method	MDL Specification	Result	Units
CoEnzyme Q10	HPLC	0.176 Report	97.763	%

7/24/2023

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	-ON 10625 DRM CoQ10 100% (23748) Standard
Entry No.	1979
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	970	-ON 10625 DRM CoQ10 100% (23748) Standard 2			

Color	File	Path	Spectrum Type
Red	42048-10625 DRM CoQ10 100% (39688).0	C:\Users\Israel\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

6439 Alondra Blvd, Paramount, CA 90723, USA
Tel (562) 633 8985, Fax (562) 633 8986
Website: nutrilandgroup.com
Email: nutrilandgroup@outlook.com



Nutriland Group, Inc

Certificate of Analysis

Product:	Milk Thistle Seed 80%		
Botanical Name:	Silybum Marianum		
Batch:	MTE22051580		
Manufacturing Date:	May 2022	Retesting Date:	May 2025
Country of Origin:	China		
CAS:	22888-70-6		
Content	Specification	Results	Methods
Appearance:	Yellow brown powder	Conforms	Visual
Particle Size:	80 mesh	Conforms	80 mesh screen
Part Used:	Seed	Conforms	
Identification:	Positive	Conforms	TLC
Silymarin:	>80%	84.1%	UV
Ratio:	70:1		
Loss on Drying:	<5%	2.60%	2g/105°C, 5hrs
Sulfate Ash:	<5%	0.38%	2g/525°C, 5hrs
Solubility:	Insoluble in water	Conforms	
Carrier Used:	None	Conforms	
Solvent Used:	Grain alcohol, water	Conforms	
Heavy Metals:	<10 ppm	Conforms	Colorimetry
Arsenic:	<1 ppm	Conforms	AA
Cadmium:	<1 ppm	Conforms	AA
Lead:	<1 ppm	Conforms	AA
Mercury:	<0.5 ppm	Conforms	AA
Total Plate Count:	<10,000 cfu/g	100 cfu/g	AOAC
Mold & Yeast:	<1,000 cfu/g	25 cfu/g	AOAC
Coliforms:	<10 cfu/g	Negative	AOAC
E. Coli:	Negative	Conforms	AOAC
Salmonella:	Negative	Conforms	AOAC
Staphylococcus Aureus:	Negative	Conforms	AOAC
GMO Statement:	Non-GMO		
Standard:	Organic Food grade		
Treatment:	High temperature & pressure		

Nutritional Information (per 100g)

Calories:	0	Calcium:	0	Vitamin A:	0
Carbohydrate:	0	Potassium:	0	Vitamin Bs:	0
Fat:	0	Sodium:	0	Vitamin C:	0
Protein:	0	Other Minerals:	0	Other Vitamins:	0

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Digitally Signed By QC Director:

Certificate of Analysis

Sample Information

CTLA ID: 76172
Date Received: 6/8/2023
Sample Name: 10134 Milk Thistle Extract 80% (Silymarin)
Lot Number: 46870
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID	FTIR		Report	93.2	%
FTIR Spectra	FTIR		Report	Attached	
Silymarin (Milk Thistle)	HPLC	0.002	Report	81.7	%
HPTLC	HPTLC		Report	Characteristic	

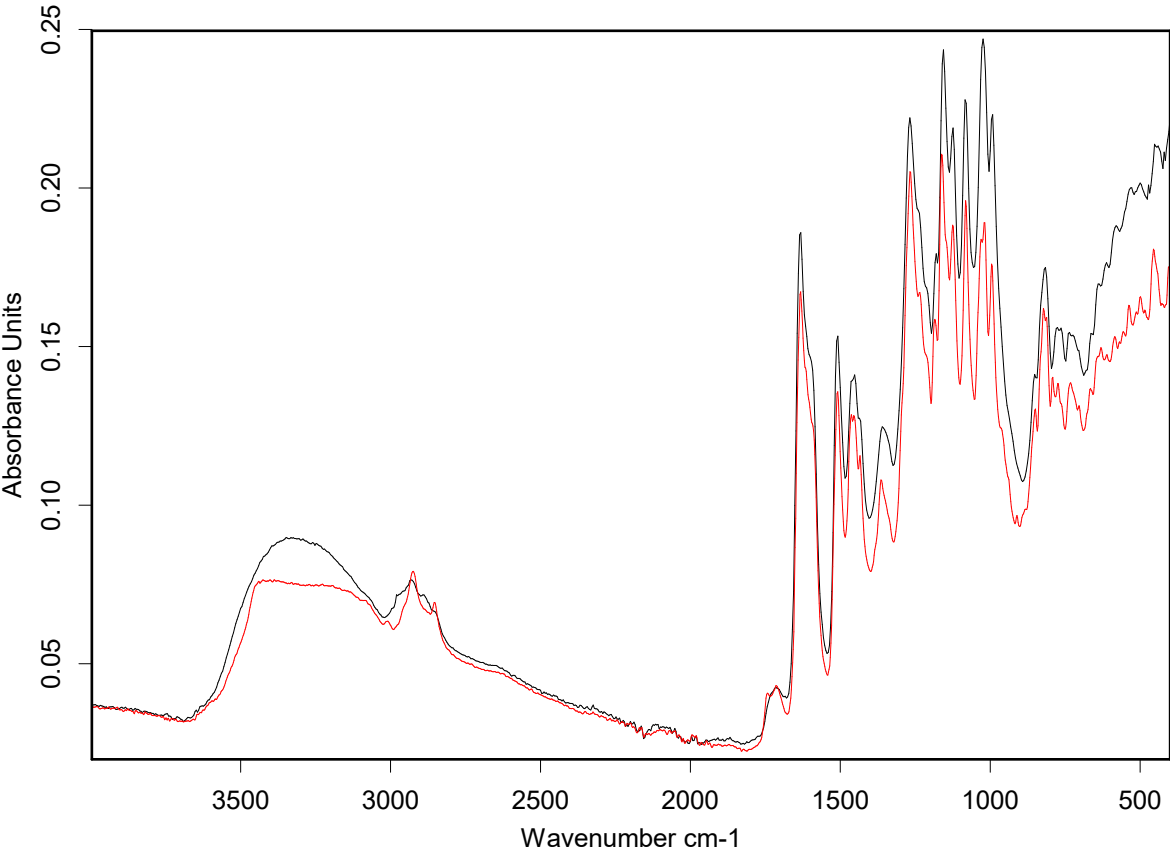
HPTLC: Fingerprint of test solution is consistent with reference standard *Silibum marianum* (milk thistle extract).

7/11/2023

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	10134 DRM Milk Thistle Extact 80% 11466 Sta
Entry No.	1357
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
	932	10134 DRM Milk Thistle Extact 80% 11466 Standard 2			

Color	File	Path	Spectrum Type
	76172-ON 10134 DRM Milk Thistle (46870).1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum