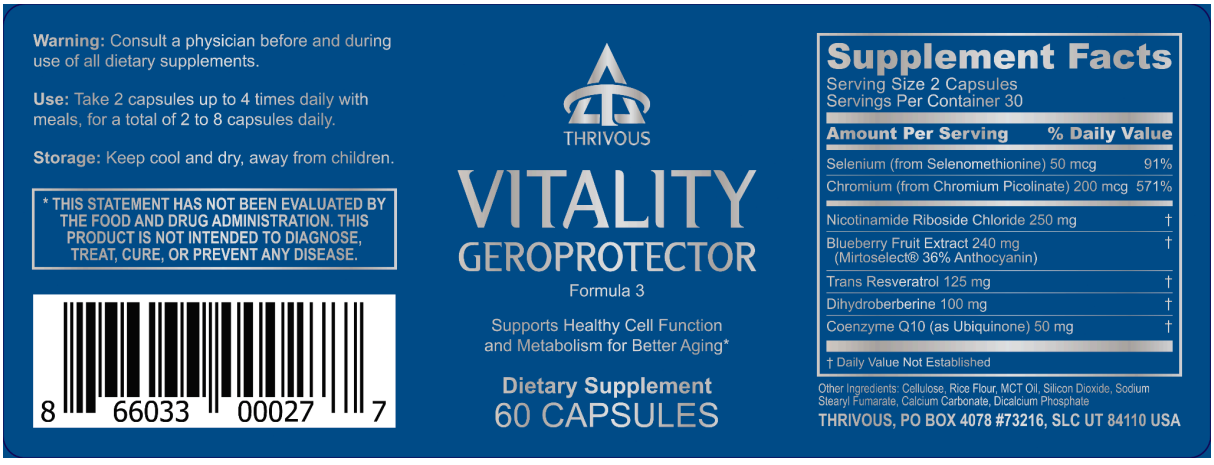
THRIVOUS

thrivous.com – support@thrivous.com – +1 801 658 9661 – 50 W Broadway 333 #73216, SLC UT 84101 USA

CERTIFICATE OF ANALYSIS AND QUALITY

Product	Vitality Geroprotector
SKU	VITALITY
Barcode	866033000277
Formula	3
Date	14 October 2024

Label



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 Calcium Carbonate Certificate of Analysis from Supplier
Excipient Calcium Carbonate Certificate of Analysis from Third-Party Testing
Excipient Dicalcium Phosphate Certificate of Analysis from Supplier
Excipient Dicalcium Phosphate 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 Rice Flour Certificate of Analysis from Supplier
Excipient Rice Flour 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
Blueberry Certificate of Analysis from Supplier
Blueberry Certificate of Analysis from Third-Party Testing

Chromium Picolinate Certificate of Analysis from Supplier
Chromium Picolinate Certificate of Analysis from Third-Party Testing
Coenzyme Q10 Certificate of Analysis from Supplier
Coenzyme Q10 Certificate of Analysis from Third-Party Testing
Dihydroberberine Certificate of Analysis from Supplier
Dihydroberberine Certificate of Analysis from Third-Party Testing
Nicotinamide Riboside Chloride Certificate of Analysis from Supplier
Nicotinamide Riboside Chloride Certificate of Analysis from Third-Party Testing
Selenomethionine Certificate of Analysis from Supplier
Selenomethionine Certificate of Analysis from Third-Party Testing
Trans Resveratrol Certificate of Analysis from Supplier
Trans Resveratrol Certificate of Analysis from Third-Party Testing

THRIVOUS
thrivous.com – support@thrivous.com – +1 801 658 9661 – 50 W Broadway 333 #73216, SLC UT 84101 USA

14 October 2024

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.

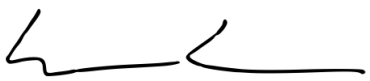
2. Product is tested by third party laboratories according to current best practices as indicated in ISO/IEC 17025.

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



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-2023-14462

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

Travis Waller

Division of Regulatory Services

State of Utah, County of Salt Lake.

On this date MAR 31 2023 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

ALEXANDRA GALLEGOS
Notary Public - State of Utah
Comm. No. 708180
My Commission Expires on
Oct 1, 2023

4315 South 2700 West, TSOB South Building, Floor 2, Taylorsville, UT 84129-2128
Telephone 801-982-2200 * facsimile 385-465-6023 * https://ag.utah.gov

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

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
March 31, 2021	March 24, 2023	June 30, 2025

Accreditation No.:	*Certificate No.:*
102267	L23-261

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.pjlabs.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
		Escherichia Coli and Total Coliforms	AOAC 991.14	
		Enterobacteriaceae	AOAC 2003.01	
		Yeast and Mold	AOAC 2014.05	
		Escherichia Coli and Total Coliforms	AOAC 2018.13	
		Aerobic Plate Count	FDA BAM Ch. 3	
		Escherichia Coli and Total Coliforms	FDA BAM Ch. 4	
		Salmonella	FDA BAM Ch. 5	Presence or Absence
		Listeria Monocytogenes	FDA BAM Ch. 10	
		Staphylococcus Aureus	FDA BAM Ch. 12	
		Yeast and Mold	FDA BAM Ch. 18	100 CFU/g
		Yeast and Mold, Aerobic Plate Count	USP 2021	
		Escherichia Coli, Staphylococcus Aureus, Salmonella, Listeria Monocytogenes	USP 2022	Presence or Absence
		Aerobic Plate Count, Total Coliform, Yeast and Mold	USP <61>	100 CFU/g
		Escherichia Coli, Staphylococcus Aureus, Salmonella	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

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
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	109856	**Sample Name**	31449 Vitality Geroprotector
Customer	Thrivous	**Lot Number**	2417702
Date Received	7/25/2024	**Date Complete**	10/28/2024
Customer Address:	PO Box 4078 #73216, SLC UT 84110		

ANALYSIS	SPECIFICATION	RESULT	METHOD	MDL	UNITS
Rapid Complete Micro					
Total Aerobic Microbial 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>		
Staphylococcus aureus	Report	Absent	USP <2022>		
Yeast & Mold	Report	<10	AOAC 2014.05	10	cfu/g
Enterobacteriaceae	Report	<10	AOAC 2003.01	10	cfu/g
Pseudomonas aeruginosa	Report	Absent	USP <62>		
Heavy Metals					
Arsenic	Report	0.060	<USP 233>	0.001	ppm
Cadmium	Report	0.034	<USP 233>	0.001	ppm
Mercury	Report	<0.001	<USP 233>	0.001	ppm
Lead	Report	0.229	<USP 233>	0.001	ppm
Chromium	Report	227.731	ICP-MS	0.05712	mcg/1,142.4mg
Selenium	Report	148.430	ICP-MS	0.05712	mcg/1,142.4mg
Resveratrol	Report	121.567	HPLC	0.068	mg/1,142.4mg
CoEnzyme Q10	Report	32.815	HPLC	0.104	mg/1,142.4mg
Nicotinamide Riboside Chloride	Report	268.100	HPLC	0.514	mg/1,142.4mg
Sibutramine	Report	ND	USP <2251>	10	µg/g
Desmethylsibutramine	Report	ND	USP <2251>	10	µg/g
Phenolphthalein	Report	ND	USP <2251>	10	µg/g
Fluoxetine	Report	ND	USP <2251>	10	µg/g

COA Note:

Approved By:

Date: 10/30/2024

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
(385) 477-4999

ISO 17025 Accreditation No: 102267

CTLA Contract TESTING Laboratories OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 109856
Date Received: 7/25/2024
Sample Name: 31449 Vitality Geroprotector
Lot Number: 2417702
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Rapid Complete Micro					
Total Aerobic Microbial Count (USP)	USP <2021>	100	Report	100	cfu/g
Total Coliforms (USP)	USP <2021> (MOD)	10	Report	<10	cfu/g
E. coli	USP <2022> (MOD)		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
Heavy Metals					
Arsenic	<USP 233>	.001	Report	0.060	ppm
Cadmium	<USP 233>	.001	Report	0.034	ppm
Mercury	<USP 233>	.001	Report	<0.001	ppm
Lead	<USP 233>	.001	Report	<0.001	ppm
Enterobacteriaceae (AOAC)	AOAC 2003.01	10	Report	<10	cfu/g
Pseudomonas aeruginosa USP <62>	USP <62>		Report	Absent	
Mineral Analysis	ICP-MS	0.05712	Report	Chromium 227.731	mcg/serv
Mineral Analysis-Additional	ICP-MS	0.05712	Report	Selenium 148.430	mcg/serv
Resveratrol	HPLC	0.068	Report	121.567	mg/serv
CoEnzyme Q10	HPLC	0.104	Report	32.815	mg/serv
Nicotinamide Riboside Chloride	HPLC	0.514	Report	268.10	mg/serv
Weight loss Adulterants					
Desmethylsibutramine	USP 2251	10	Report	ND	µg/g
Fluoxetine	USP 2251	10	Report	ND	µg/g
Phenolphthalein	USP 2251	10	Report	ND	µg/g
Sibutramine	USP 2251	10	Report	ND	µg/g

10/28/2024
DATE

Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer.
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Certificate of Analysis

Sample Information

CTLA ID:	109856
Date Received:	7/25/2024
Sample Name:	31449 Vitality Geroprotector
Lot Number:	2417702
Customer:	Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Amazon document fee			Report		

Amended report: tests added
Serv=Serving
Serving=2 capsules
2 capsules=1,142.4mg

10/28/2024
DATE

Quality Manager

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ORIGINAL

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

CERTIFICATE OF ANALYSIS

Issued date : Oct. 18, 2023

Product Description Empty Hard Capsule From Hypromellose (HPMC)

Customer :	SUHEUNG-AMERICA	U.S.A	Manufacturing Date :	Jun. 25, 2023	
Capsule Type :	EMBOCAPS®	VG-Pro "Kosher and Halal Certified"	Expiration Date :	Jun. 24, 2028	
Capsule Item No. :	VP0A051A051		Quantity :	15,000,000	PCS (150 Cartons)
Lot Number :	VP0A051A051 -	231901	Carton No. :	1 - 150	
Product Size :	0				
Product Code :		CAP	BODY		
	Color	A051 (CLEAR)	A051 (CLEAR)		

Composition

Cap	Hypromellose	qsp 100	Body	Hypromellose	qsp 100

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	96.7	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	6.7	USP/EP
Residue on Ignition (Ash)*		%	NMT 3.0	0.3	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.

Element	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	E464		Structure	EP, JP, USP/NF

- Warehouse storage condition : The ideal storage temperature for unopened cartons of empty hard capsules ranges from 15℃ to 25℃. To maintain optimal condition, keep the cartons away from heat sources, including direct sunlight, and ensure they are stored in a dry location.
- During operation : For the encapsulation process, the recommended operating conditions for empty hard capsules are a temperature range of 15℃ to 25℃ and a relative humidity level between 35% and 65%.
- We, Suheung Co., Ltd., hereby certify that the Empty Hard Capsules manufactured by us are free from Preservatives and no Ethylene Oxide or/and Irradiation Treatment .

* ORDER NO. HC7325 (GLOBAL)

10/18

Quality Assurance Manager

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

CTLA Contract TESTING Laboratories OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102898
Date Received: 4/30/2024
Sample Name: 10032 Capsule, HPMC, 0, Clear
Lot Number: 54208
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95.7	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
DATE

Quality Manager

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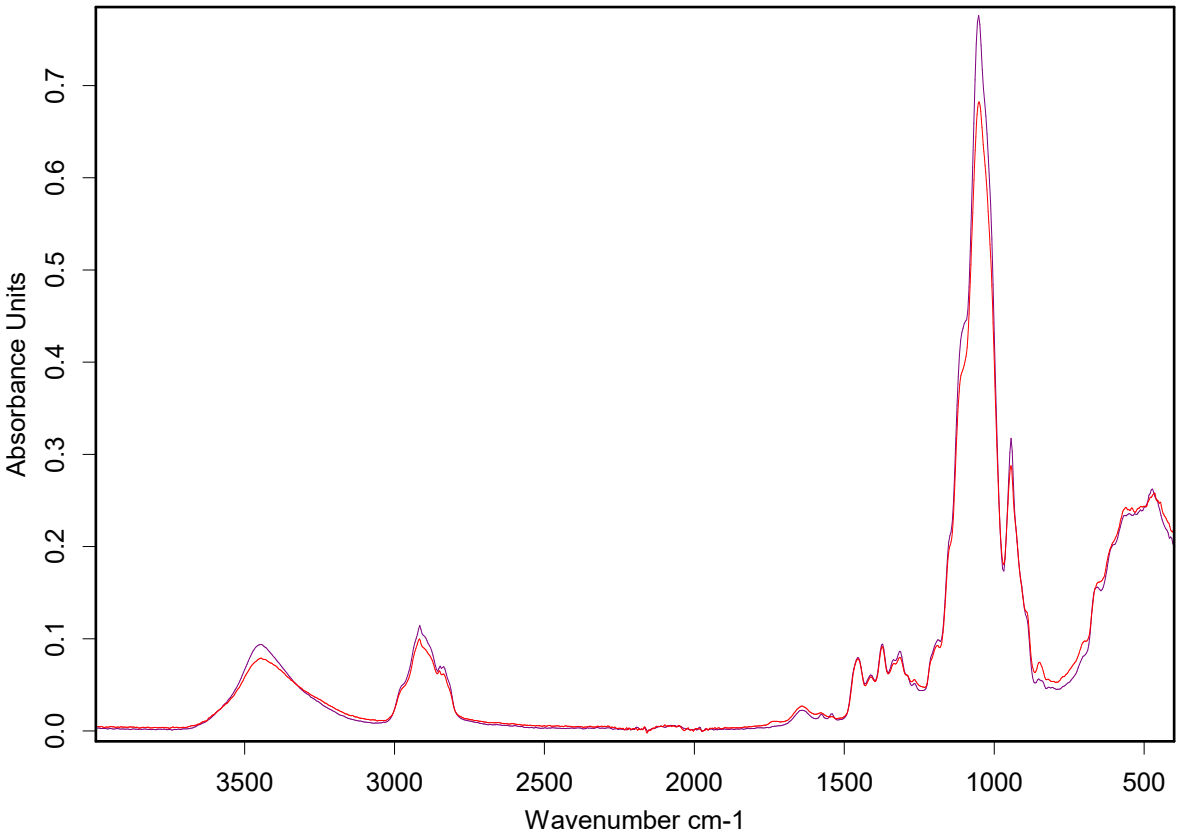

Product Number	10032 CPS Capusle HMPC Clear 12156 Standa
Entry No.	1407
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	957	10032 CPS Capusle HMPC Clear 12156 Standard 3			

Color	File	Path	Spectrum Type
	102898-ON 10032 Capsule, HPMC, 0, Clear (54208).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

Proudly Supplied By: Vivion
1650 South Amphlett Blvd, Suite 226
San Mateo, CA 94402
www.vivion.com Phone: (650) 595-3600

Omya Inc.
P.O Box 188
6 N Mesquite Road
Superior, AZ 85173

Tel: (520) 689-2500
www.omya-na.com

CERTIFICATE OF ANALYSIS

Product	Omya-Cal® FG-15 - AZ	Ship Date	02/05/24
Ship To:	Vivion Inc. Salt Lake 5151 W 150 S Salt Lake City, UT 84116		
BOL Number	805688615	LOT Number	Z401010712
Railcar / Truck		Manufactured	12/13/23
P. O #	708585 - 001	Customer Code	5084-50LB
Country of Origin	USA	*Expiration Date	12/13/26

*Store in dry location

Characteristics	Test Method (Revised #s)	Result	Unit	Specification	
				Min	Max
Salmonella	USP 62	Negative	25g	Negative	
Median Particle Size	USAZ\PRO-0172	15.5	µm	14.0	17.0
Magnesium & Alkali Salts	USAZ\PRO-0058	0.8	%		3.5
Loss on Drying	USAZ\PRO-0065	0.0	%		2.0
Arsenic	USAZ\PRO-0148	0.6	ppm		3.0
Lead	USAZ\PRO-0148	0.2	ppm		0.3
Acid Insolubles	USAZ\PRO-0057	0.4	%		2.5
Fluoride	USAZ\PRO-0187	0.002	%		0.005
Assay, %CaCO3	USAZ\PRO-0061	100.1	%	98.0	100.5
Identification	USAZ\PRO-0066	Pass		Pass	
Mercury	USAZ\PRO-0148	0.0	ppm		0.5

This product meets all current Food Chemicals Codex standards.

Validated by: Julie K M Date: 02/02/24

Barbara Harris, QSHE Manager Email: barbara.harris@omya.com
Julie Messersmith, Scientist Email: julie.messersmith@omya.com

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102893
Date Received: 4/30/2024
Sample Name: 10598 Omya-Cal Fg-15 Calcium Carbonate 39%
Lot Number: 54001
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	93.9	%
Total Aerobic Microbial Count	USP <2021>	100	Report	600	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
DATE

Quality Manager

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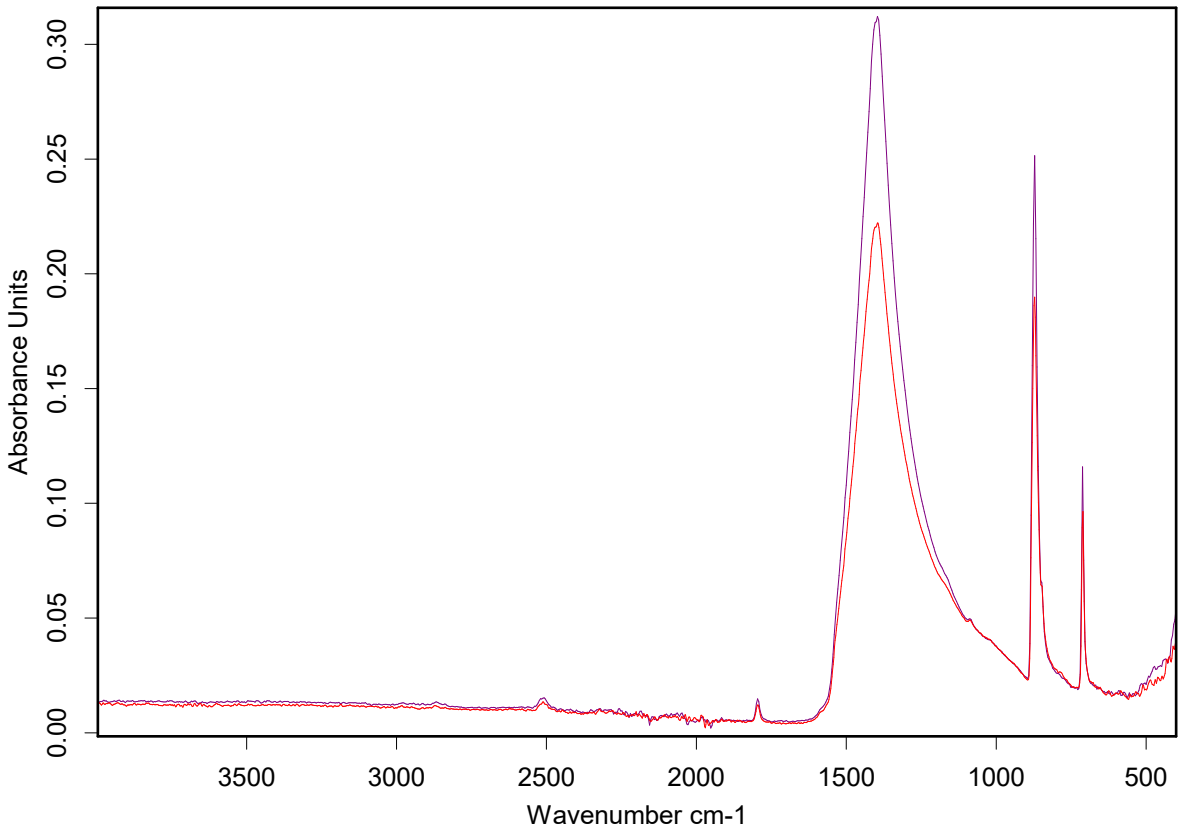


Product Number	ON 10598 DRM Omya-Cal Fg-15 Calcium Carl
Entry No.	3502
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	939	ON 10598 DRM Omya-Cal Fg-15 Calcium Carbonate 39% (54001) Standard 2			

Color	File	Path	Spectrum Type
	102893-ON 10598 Omya-Cal Fg-15 Calcium Carbonate 39%	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

Reephos Chemical (LYG) Co., Ltd.
No.26, Linpu Road, Dapu,
Lianyungang ,Jiangsu, China.
Tel:+86-518-83061197
Fax:+86-518-83068809

CERTIFICATE OF ANALYSIS

PO NO.: 990061
NAME OF COMMODITY: DICALCIUM PHOSPHATE ANHYDROUS POWDER HD
PRODUCT CODE: 1027P

BATCH NO.: 0422070525
PRODUCTION DATE: JUL.05, 2022
EXPIRY DATE: JUL.04, 2024 **DATE: JUL.06, 2022**

NAME OF INDEX	SPECIFICATION	TEST RESULTS	TEST METHOD
INDENTIFICATION A&B	PASS TEST	PASS TEST	USP
CONTENT, %	98.0-103.0	98.2	USP
LOSS ON IGNITION, %	7.0-8.5	7.4	USP
LOSS ON DRYING, %	1.0 MAX.	0.2	USP
ACID INSOLUBLE SUBSTANCES, %	0.2 MAX.	0.03	USP
PH VALUE	7.0-8.0	7.6	USP
CHLORIDE, %	0.25 MAX.	0.01 MAX.	USP
SULPHATE, %	0.5 MAX.	0.01 MAX.	USP
CARBONATE	PASS TEST	PASS TEST	USP
BARIUM	PASS TEST	PASS TEST	USP
HEAVY METALS, %	0.003 MAX.	0.001 MAX.	USP
ARSENIC	1PPM MAX.	1PPM MAX.	USP
FLUORIDE, %	0.005 MAX.	0.005 MAX.	USP
LEAD	0.5PPM MAX.	0.5PPM MAX.	USP
ORGANIC VOLATILE IMPURITIES	PASS TEST	PASS TEST	USP
CADMIUM, %	0.0001 MAX.	0.0001 MAX.	USP
MERCURY, %	0.0001 MAX.	0.0001 MAX.	USP
PARTICLE SIZE, PASS 325 MESH, %	99.0 MIN.	99.8	METHOD IN HOUSE

REMARKS: IT COMPLIES WITH FCC/USP STANDARD.

STORAGE CONDITION: IN VENTILATIVE AND DRY WAREHOUSES.
COUNTRY OF ORIGIN: CHINA.

ANALYST: CHEN JIE
SIGNATURE:
DATE OF APPROVAL: JUL.06, 2022

For and on behalf of

Stauber Item# 22811-54267

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

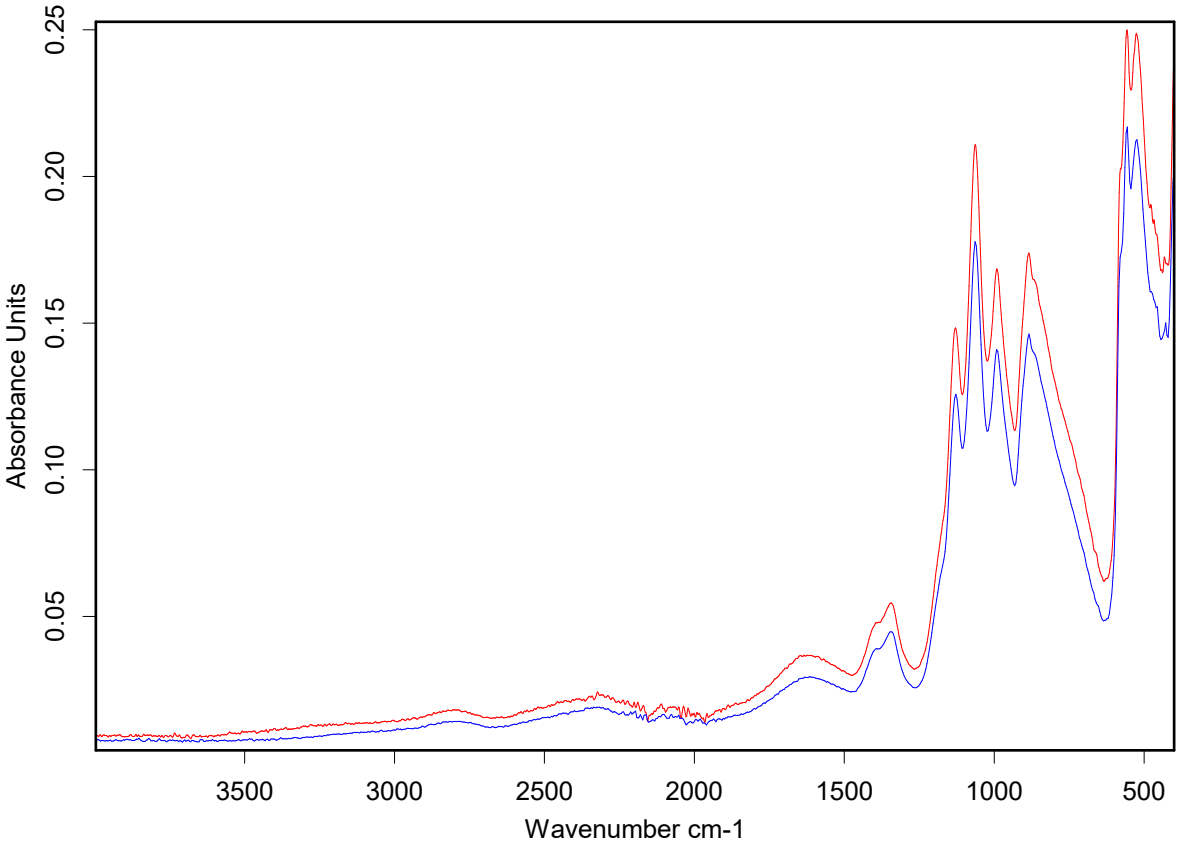
CTLA ID: 102894
Date Received: 4/30/2024
Sample Name: 10658 DiCalcium Phosphate 23% / 19%
Lot Number: 50951
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	98.2	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
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 10658 DRM DiCalcium Phosphate 23% - 1
Entry No.	2739
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	982	ON 10658 DRM DiCalcium Phosphate 23% - 19% Lot (42784)			

Color	File	Path	Spectrum Type
	102894-ON 10658 DiCalcium Phosphate 23% 19% (50951).(	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

Confidential

CONNOILS®

Certificate of Analysis

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

Batch: F082623-26154 Mfg. Date: 08/26/2023 Retest Date: 08/26/2026

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 Tl 1a-64
Iodine Value	$gI_2/100g$	0.03	Max. 0.5	AOCS Tg 1a-64
Hydroxyl Value	mg KOH/g	2	Max. 5	AOCS Cd 13-60
Peroxide Value	meq/kg	NIL	Max. 5	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	%	0.2	Max. 1	ISO 12966-2
Chromium	ppm	<0.05	Max. 0.05	ICP-MS
Copper	ppm	<0.1	Max. 0.1	ICP-MS
Lead	ppm	<0.1	Max. 0.1	ICP-MS
Nickel	ppm	<0.1	Max. 0.1	ICP-MS
Tin	ppm	<0.1	Max. 0.1	ICP-MS
***Typical Microbial Data:**				
Aerobic Plate Count	cfu/g	<10	Max. 500	FDA-BAM
Yeast & Mold	cfu/g	<10	Max. 50	FDA-BAM
Salmonella	cfu/25g	Absent	Absent	FDA-BAM
Coliforms	cfu/1g	Absent	Absent	FDA-BAM

* testing is done on an annual basis

Results Reviewed by	Results Verified by
Signature: Leah Estrada	Signature: Arielle Klingenberg (Feb 29, 2024 12:31 CST)
Print Name: Leah Estrada	Print Name: Arielle Klingenberg
Date: 02/27/2024	Date: 02/29/2024

Connoils® PO Box 357, Big Bend, WI 53103
Warehouse Location: W230 S7115 Guthrie School Rd. Big Bend, WI 53103
P: 262-662-5533

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102889
Date Received: 4/30/2024
Sample Name: 10842 MCT Oil 100%
Lot Number: 53841
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	98.1	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
DATE

Quality Manager

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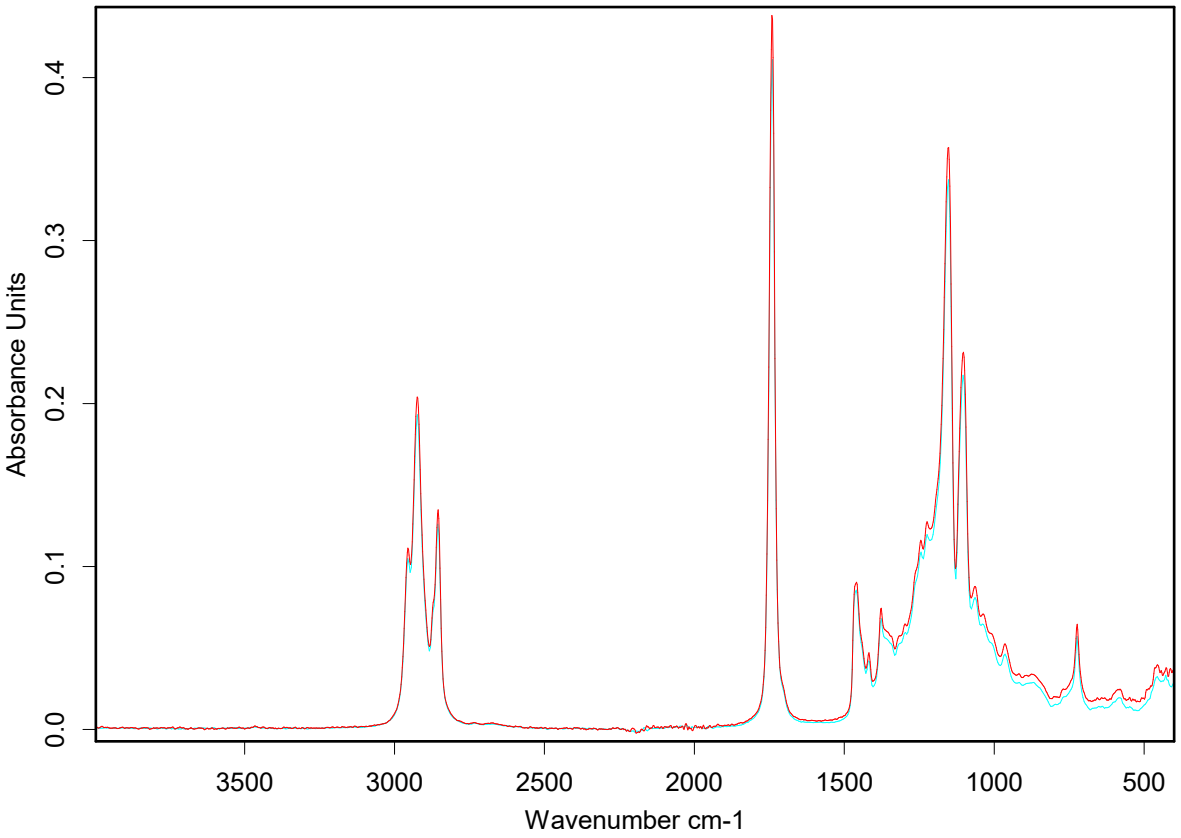

Product Number	ON 10842 LIQ MCT Oil 100% 18053 Standard
Entry No.	1721
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

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

Color	File	Path	Spectrum Type
	102889-ON 10842 MCT Oil 100% (53841).0	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

47 165

Honeyville Inc.
1040 West 600 North
Ogden, UT 84404
Phone: (385) 374-9400
Fax: (385) 298-0138
www.honeyville.com

Certificate of Analysis

Product: **Heat Treated, TempSURE Fine White Rice Flour 50#**
Item Code: **411-0007**
Botanical Name: ***Oryza Sativa***
Lot # 04141-057 1
Manufacture Date: February 10, 2024
Best by Date: February 10, 2025

Analysis:

Test	Method	Result	Units
APC	AOAC 990.12	<100	CFU/gm
Coliform Count	AOAC 991.14	<10	CFU/gm
E. Coli Count	AOAC 991.14	<10	CFU/gm
Staphylococcus Aureus	FDA/BAM Chp. 12	<10	CFU/gm
Salmonella	FDA/BAM Chp. 5	Negative	375/gm
Listeria (EIA)	AOAC 996.14	Negative	100/gm
Yeast Count	FDA/BAM Chp. 18	<100	CFU/gm
Mold Count	FDA/BAM Chp. 18	<100	CFU/gm
Moisture	AND Loss on Drying	6.85	%
Gluten*	Manufacturer COA	<10	ppm
Soy*	Manufacturer COA	<5.0	<5.0ppm

Manufactured by Western Foods. Heat Treatment by Honeyville Inc.
*Gluten and soy testing results are as reported from the primary manufacturer's COA.

Certification:

This is to certify that analysis of material is product specification as provided by the manufacturer.

Approved by: _____
Heidi Leavitt
Quality Assurance

*This product has undergone the TempSURE Dry Heat Process and meets all current and applicable regulations of the Federal Food, Drug and Cosmetic Act as amended and meets applicable state statutes and regulations.
This information is accurate to the best of our knowledge, however no warranty, express, or implied is made. Users should make their own investigations to determine the suitability of this product and information for their own particular application. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product and to assume liability for loss, injury, damage or expense due to improper use.

TempSURE® DRY HEAT PROCESS

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102891
Date Received: 4/30/2024
Sample Name: 10108 Rice Flour #50 (Heat Treated)
Lot Number: 53869
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95.4	%
Total Aerobic Microbial Count	USP <2021>	100	Report	100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
DATE

Quality Manager

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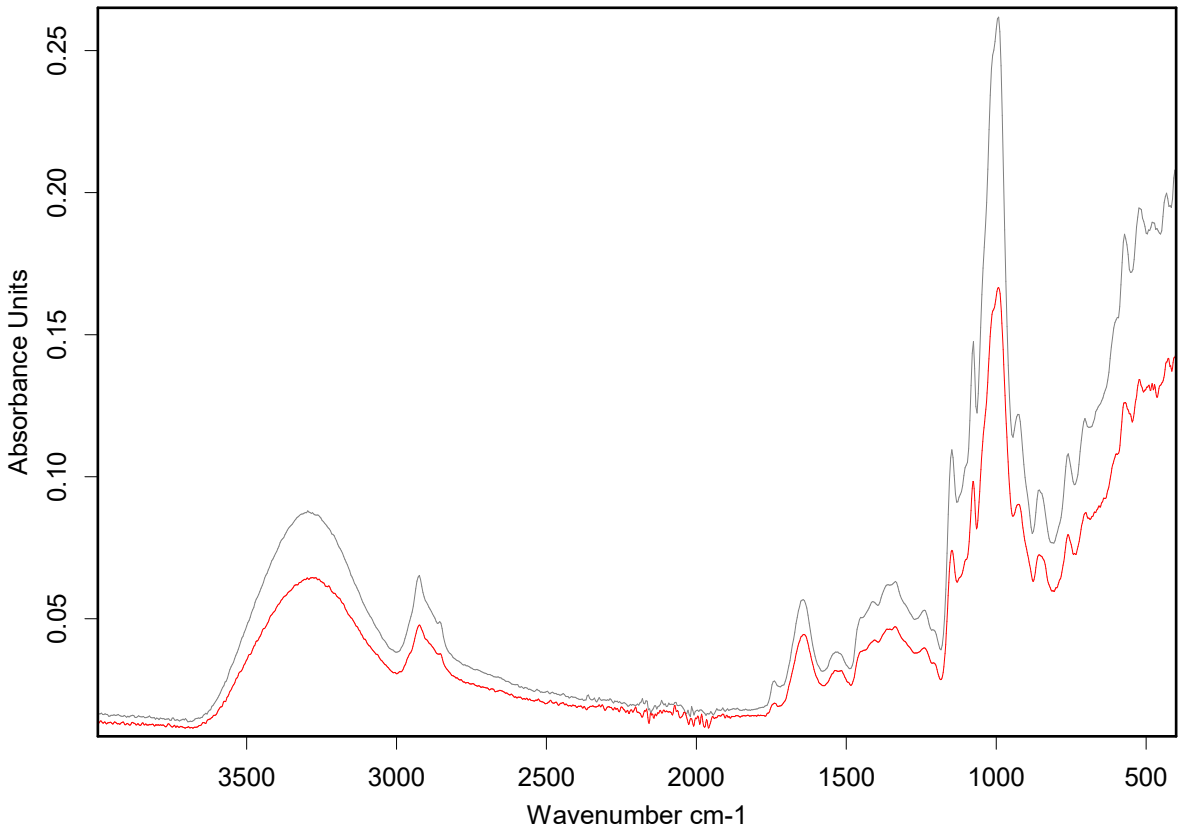

Product Number	10108 Rice Flour 62241 Standard 3
Entry No.	125
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	954	10108 Rice Flour 62241 Standard 3			

Color	File	Path	Spectrum Type
	102891-ON 10108 Rice Flour #50 (Heat Treated) (53869).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
www.vivioninc.com 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.	Specification 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	foll. 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	foll. ISO 13320-1	µm	11.7	10.0	14.0

Product	SIPERNAT® 22 S 15 x 11.34 KG / 25.00 lbs Paper Bag 5M1 / Hardwood pallet		
Material	99002421	Date	Nov 1, 2021
Batch	311092711		
Customer material no.	25920-25LB / 3919202 110 01M	Delivery Number / Item	3007838922 / 000001

Please note:

From 14.05.2020 you can find the reference to local and global specifications in the field "Spec. No"

Please send your questions to silica-qlims@evonik.com

Saeed Safdari
Inspector, Chester site
1200 West Front Street, Chester, PA 19013 USA
saeed.safdari@evonik.com

*** End ***

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102890
Date Received: 4/30/2024
Sample Name: 10030 EXC Silicon Dioxide, Precipitated
Lot Number: 41097
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	97.3	%
Total Aerobic Microbial Count	USP <2021>	100	Report	3,020,000	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/8/2024
DATE

Quality Manager

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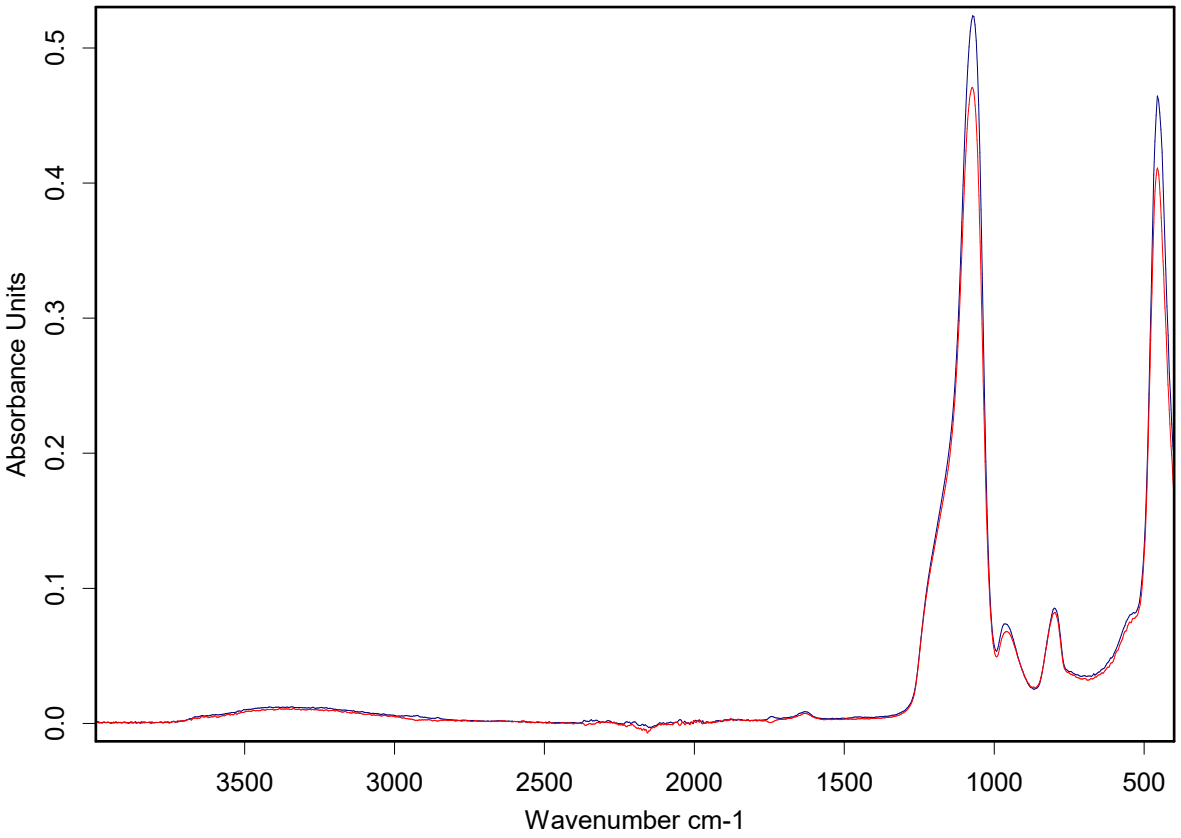

Product Number	10030 Silicon Dioxide 1866 Standard 2
Entry No.	249
Library name	COMPARISON TESTS.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	973	10030 Silicon Dioxide 1866 Standard 2			

Color	File	Path	Spectrum Type
	102890-ON 10030 EXC Silicon Dioxide, Precipitated (41097)	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

JRS PHARMA JRS FAMILY

PRUV®

Sodium Stearyl Fumarate Ph. Eur., NF, JPE

CERTIFICATE OF ANALYSIS

Batch No.: **3098** Manufacturing Site: Polanco, Spain
Re-evaluation date: 10/2024
Manufacturing date: 10/2021

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	144.9	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%	99.9 %	Ph. Eur., NF, JPE
Related substances (Ph. Eur.)	Largest single impurity max. 0.5%	0.2 %	Ph. Eur.
	Total Impurities max. 5.0%	0.4 %	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	1.4 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	1.6 µm	JRS method
	d50: max. 20 µm	8 µm	JRS method
	d90: max. 45 µm	22 µm	JRS method

Zpruvp04

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.

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

2022-01-12
Ref: JRS Pharma LP

Stefanie Henker
QUALITY ASSURANCE
Pharmaceutical and Food Excipients

JRS PHARMA GMBH & CO. KG
Holzmühle 1 · 88494 Rosenberg (Germany)
Phone +49 7967 152-312
Fax +49 7967 152-145
ExcipientsService@JRSPharma.de · www.jrspharma.com · www.jrs.de
Customer Service +49 7967 152-312

JRS PHARMA LP
2981 Route 22, Suite 1 · Patterson, NY 12563-2459 (USA)
Toll Free +1 (800) 451-2457
Phone +1 (845) 878-3414 · Fax +1 (845) 878-3454
info@jrspharma.com · www.jrspharma.com
Customer Service +1 (845) 878 3414

CTLA Contract TESTING Laboratories OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102888
Date Received: 4/30/2024
Sample Name: 10530 EXC PRUV (Sodium Stearyl Fumarate)
Lot Number: 47191
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	97.5	%
Total Aerobic Microbial Count	USP <2021>	100	Report	500	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
FTIR Spectra	FTIR		Report	Attached	

5/3/2024
DATE

Quality Manager

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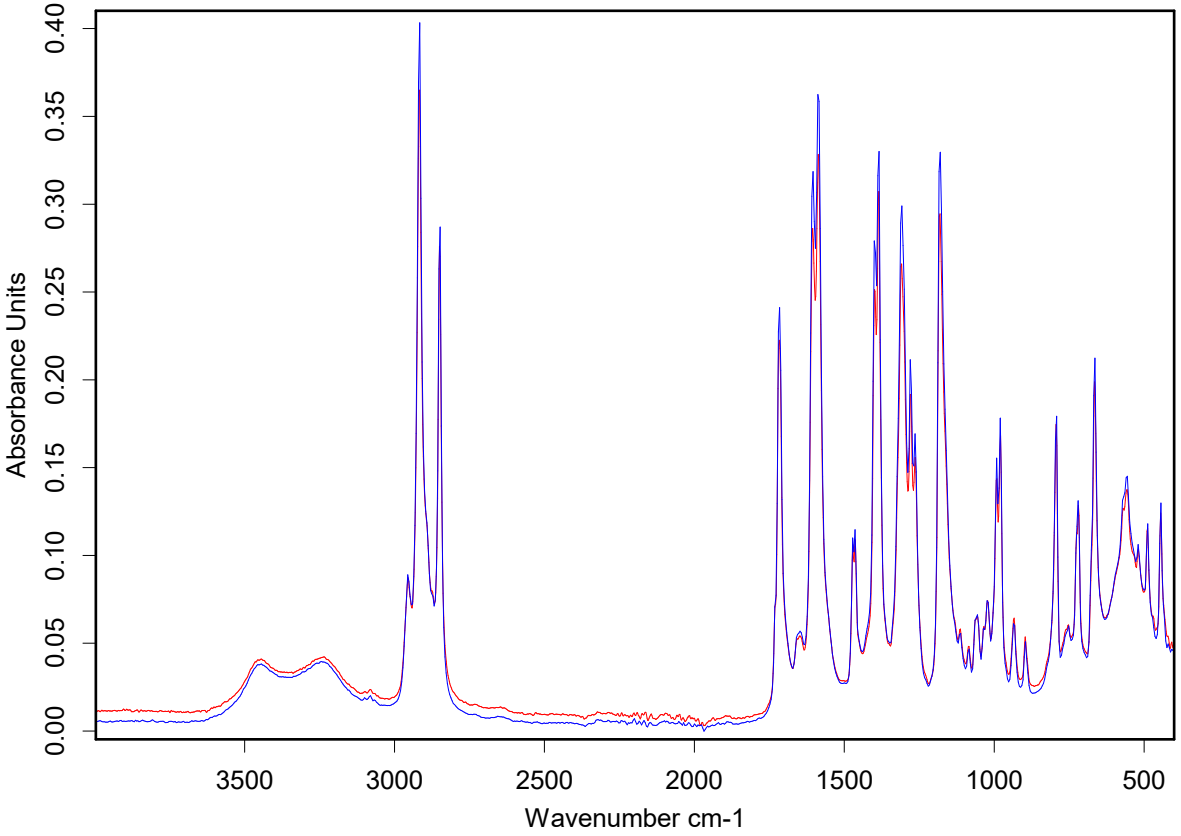

Product Number	10530 PRUV 4862 Standard 2
Entry No.	870
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	975	10530 PRUV 4862 Standard 2			

Color	File	Path	Spectrum Type
	102888-ON 10530 EXC PRUV (Sodium Stearyl Fumarate) (47	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

HEADQUARTERS: Viale Ortles 12, 20139 Milan (MI)
FACTORY : Via Don Minzoni 6, 20049 Settala (MI) - ITALY
PHONE : +39-0295413.1

PRODUCT : VACCINIUM MYRTILLUS DRY EXTRACT MIRTOSELECT(R)

CODE N. : 9042202 ANALYSIS CERTIFICATE N. : 118369/3
DESCRIPTION : BILBERRY(V.MYRTILLUS)ET.EX.36%
BATCH N. : 23S0263101

MANUFACTURE DATE : 8/11/2023 BATCH RELEASE DATE : 30/11/2023
RETESTING DATE : 7/11/2026 CoA APPROVAL DATE : 30/11/2023

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 Assay of total anthocyanosides According to TM/0334	36.8	36.0 - 43.0	%
HPLC CONTENTS Assay of anthocyanidins According to TM/0334	0.4	<= 1.0	%
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	95.5	>= 95.0	%
TLC IDENTIFICATION According to TP-002	Complies	Complies	
TAPPED DENSITY According to Ph. Eur. 2.9.34.	0.83	For Information Only	g/ml

indena®

HEADQUARTERS: Viale Ortles 12, 20139 Milan (MI)
FACTORY : Via Don Minzoni 6, 20049 Settala (MI) - ITALY
PHONE : +39-0295413.1

CODE N. : 9042202 ANALYSIS CERTIFICATE N. : 118369/3

DETERMINATION	RESULTS	SPECIFICATIONS	U.M.
PARTICLE SIZE Pass 200 um (#75 Mesh) According to TM/0314	94	>= 80	%
PARTICLE SIZE Pass 100 um (#150 Mesh) According to TM/0314	70	>= 60	%
SULPHATED ASH According to Ph. Eur. 2.4.14.	0.4	<= 3.0	%
WATER (K. Fischer) According to Ph. Eur. 2.5.12. Method A	3.0	<= 4.5	%
ARSENIC ICP-MS - According to TM/0412	0.1	<= 1.0	ppm
LEAD ICP-MS - According to TM/0412	0.1	<= 1.0	ppm
CADMIUM ICP-MS - According to TM/0412	0.003	<= 0.2	ppm
MERCURY ICP-MS - According to TM/0412	< 0.0005	<= 0.10	ppm
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	2630	<= 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 Listed in USP <561> According to TP-005	Complies	Complies	

PRINTING DATE 30/11/2023 This is a computer print of the analysis certificate which has been undersigned on the original and is valid without signature. ALL THE DATES ARE IN D/M/Y FORMAT.

0000112622

0002118304

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 99643
Date Received: 3/18/2024
Sample Name: 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
Lot Number: 54057
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	98.1	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <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	0.060	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	0.028	ppm
Pesticides (USP 561)					
Acephate	LCMS	0.1	Report	<0.1	ppm
Alachlor	USP <561>	0.05	Report	<0.05	ppm
Aldrin & Dieldrin (sum of)	USP <561>	0.05	Report	<0.05	ppm
Azinphos Ethyl	USP <561>	0.1	Report	<0.1	ppm
Azinphos Methyl	USP <561>	0.1	Report	<0.1	ppm
Bromophos Ethyl	USP <561>	0.05	Report	<0.05	ppm
Bromophos Methyl	USP <561>	0.05	Report	<0.05	ppm
Bromopropylate	USP <561>	0.1	Report	<0.1	ppm
Chlordane (sum of cis-, trans-, and oxychlordane)	LCMS	0.05	Report	<0.05	ppm
Chlorfenvinphos	USP <561>	0.1	Report	<0.1	ppm

4/5/2024
DATE

Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer.
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CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

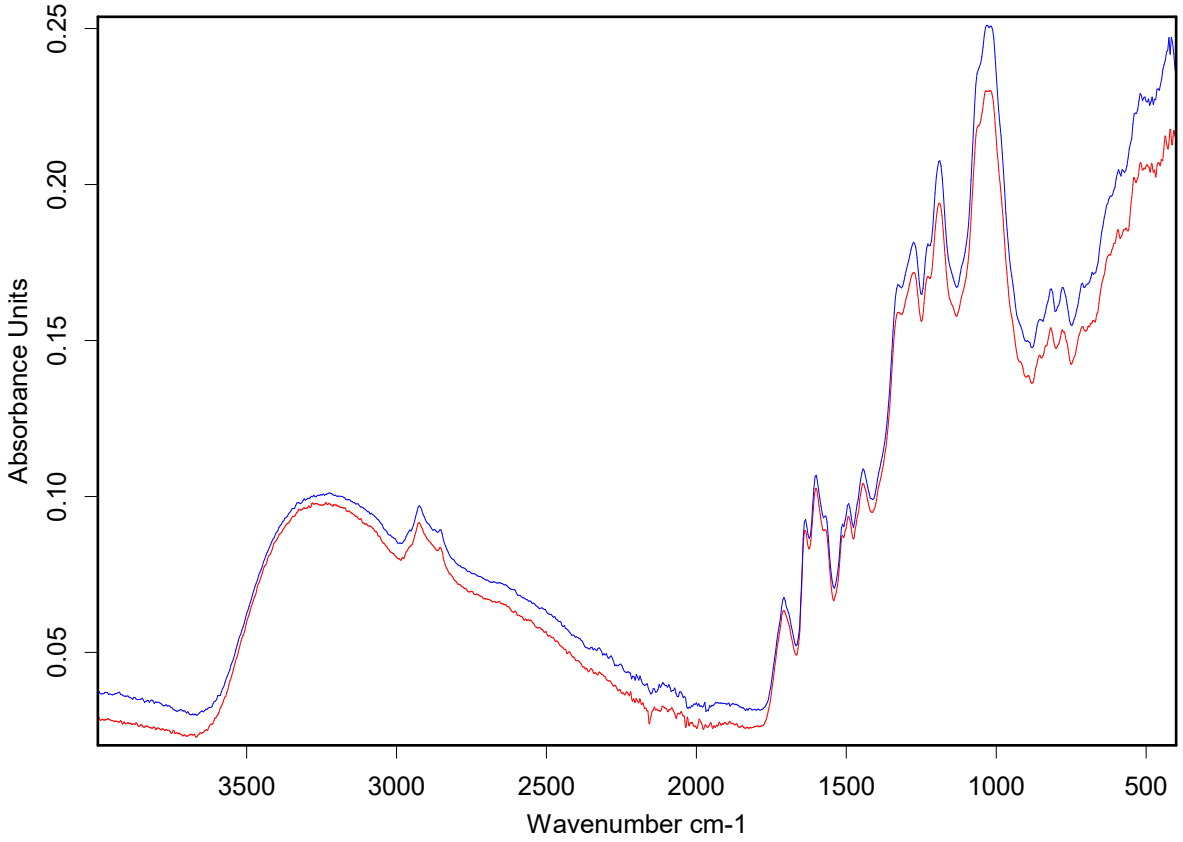
CTLA ID: 102887
Date Received: 4/30/2024
Sample Name: 11234 Billbery Extract 36% (Anthocyanidins)
Lot Number: 54057
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID	FTIR		Report	96.1	%
Anthocyanidins	UV-Vis	0.00001	36	39.869	%
FTIR Spectra	FTIR		Report	Attached	

5/8/2024
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 11234 DRM Bilberry Fruit Extract (Mirtose
Entry No.	3505
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	961	ON 11234 DRM Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin (54057) Standard 3			

Color	File	Path	Spectrum Type
	102887-ON 11234 Billbery Extract 36% (Anthocyanidins) (54	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

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OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 105352
Date Received: 5/31/2024
Sample Name: 11234 Bilberry Fruit Extract (Mirtoselect) 36% Anthocyanin
Lot Number: 54057
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
Vaccinium myrtillus	HPTLC		Report	Characteristic	

Serv=Serving
Serving=4,980mg

HPTLC: test sample is consistent with standard *Vaccinium myrtillus* (bilberry).

6/21/2024
DATE

Quality Manager

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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:	Chromium Picolinate		
Batch:	20231255		
Manufacturing Date:	Dec 2023	Retesting Date:	Dec 2026
Country of Origin:	China		
CAS:	14639-25-9		

Content	Specification	Results	Methods
Appearance:	Red powder	Conforms	Visual
Particle Size:	80 mesh	Conforms	80 mesh screen
Chemical Formula:	$C_{18}H_{12}CrN_3O_6$		
Identification:	Item A, B	Conforms	USP
Assay:	98% - 102%	99.2%	HPLC
Chromium:	>12%	12.29%	Titration
Loss on Drying:	<5%	1.0%	USP
Solubility:	Insoluble in water	Conforms	
Chloride:	<0.06%	Conforms	USP
Sulfate:	<0.2%	Conforms	USP
Heavy Metals:	<10 ppm	Conforms	USP
Arsenic:	<1 ppm	Conforms	USP
Cadmium:	<1 ppm	Conforms	USP
Lead:	<1 ppm	Conforms	USP
Mercury:	<0.1 ppm	Conforms	USP
Total Plate Count:	<1,000 cfu/g	10cfu/g	USP
Mold & Yeast:	<100 cfu/g	<10cfu/g	USP
Coliforms:	<10 cfu/g	Negative	USP
E. Coli:	Negative	Conforms	USP
Salmonella:	Negative	Conforms	USP
Staphylococcus Aureus:	Negative	Conforms	USP

GMO Statement:	GMO free
Standard:	USP food grade
Treatment:	None
Note:	Yeast free

Nutritional Information

Carbohydrate:	0	Calcium:	0	Vitamin A:	0
Fat:	0	Potassium:	0	Vitamin Bs:	0
Fiber:	0	Sodium:	0	Vitamin C:	0
Lactose:	0	Other Minerals:	0	Other Vitamins:	0
Protein:	0	Total Amino Acids:	0		

Digitally Signed By QC Director:

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Certificate of Analysis

Sample Information

CTLA ID: 102895
Date Received: 4/30/2024
Sample Name: 10713 Chromium Picolinate 11.7%
Lot Number: 54349
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	91.7	%
Total Aerobic Microbial Count	USP <2021>	100	Report	500	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
Mineral Analysis	ICP-MS	0.00001	11.7	Chromium 11.956	%
FTIR Spectra	FTIR		Report	Attached	

5/8/2024
DATE

Quality Manager

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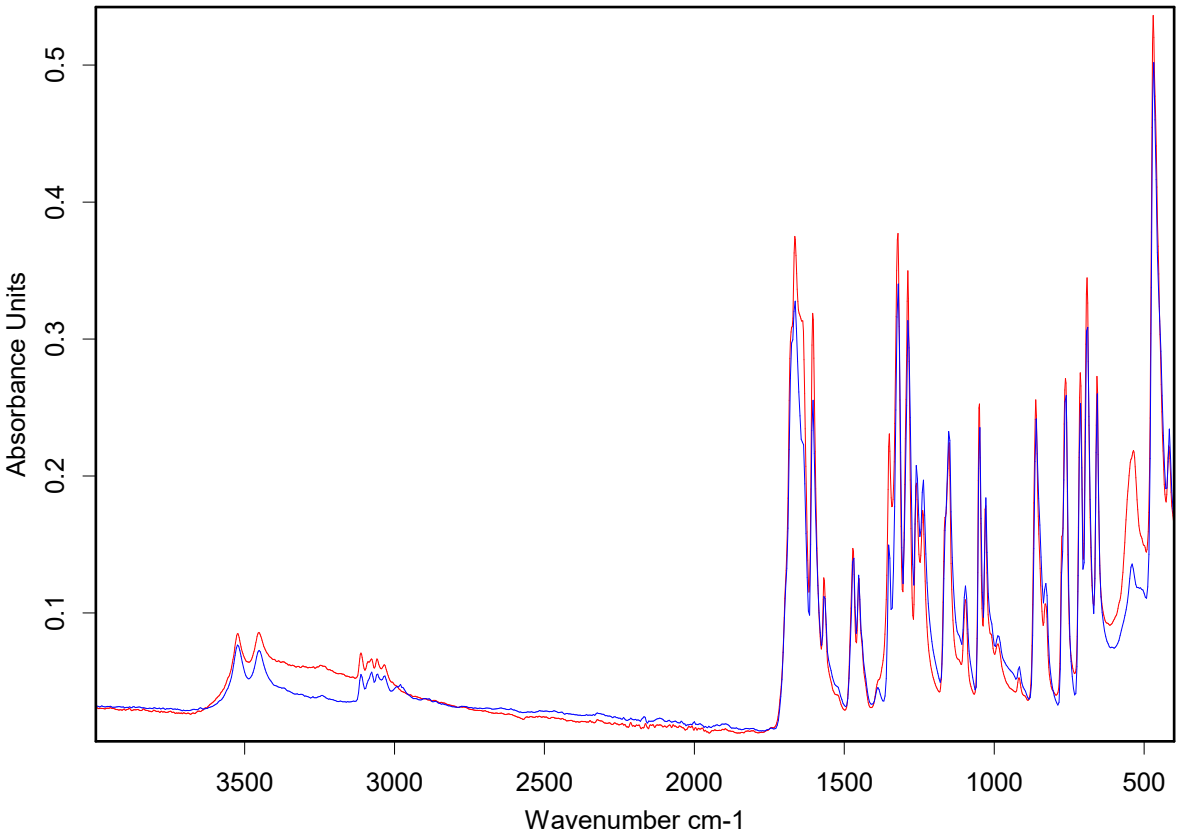

Product Number	4887-10713 DRM Chromium Picolinate 11.7%
Entry No.	1356
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	917	4887-10713 DRM Chromium Picolinate 11.7% 11464 Standard 1			

Color	File	Path	Spectrum Type
	102895-ON 10713 Chromium Picolinate 11.7% (54349).2	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

金达威集团 KINGDOMWAY

内蒙古金达威药业有限公司
Inner Mongolia Kingdomway Pharmaceutical Limited
内蒙古自治区呼和浩特市托克托工业园区 010206
Tuoketuo Industrial Park, Hohhot, Inner Mongolia, China
电话：0471 8660088 传真：0471 8660099
E-mail: jck@kingdomway.com Web: www.kingdomway.com

CERTIFICATE OF ANALYSIS

Report Date FEB.05, 2024

Name	:Coenzyme Q_{10}	**Specification**	:USP43/ EP8.0/ JP17
Batch No.	:51-2401155	**Manu. Date**	:JAN.21,2024
Package	::1kgs/Drum,10drum/carton\	**Expiry Date**	:JAN.20,2027
Quantity	:25kgs		

ITEM	SPECIFICATION	TEST METHOD	RESULT
1 Appearance	Yellow or orange, crystalline powder	Visual, EP8.0	Complies
2. Identification A: IR B: Color Reaction C: HPLC	Corresponds qualitatively to the reference A blue color appears Corresponds qualitatively to the reference	IR (EP8.0) Color Reaction (USP) HPLC (EP8.0)	Complies Positive Complies
3. Melting Point	48.0°C-52.0°C	USP <741>	51.0°C-52.0°C
4. Water	≤0.2%	KF (USP <921>)	0.02%
5. Residue on Ignition	≤0.1%	USP <281>	0.03%
6. Particle Size	Not less than 90% pass 80 mesh	USP <786>	Complies
7. Heavy Metal	≤10ppm	USP <231>	<10ppm
8. Arsenic	≤1ppm	AFS	Complies
9. Lead	≤1ppm	AFS	Complies
10. Mercury	≤0.1ppm	AFS	Complies
11. Cadmium	≤1ppm	AFS	Complies
12. Residue Solvents	Ethanol≤1000ppm Ethyl Acetate≤100ppm N-hexane≤1ppm	GC (USP <467>)	47ppm <5.6ppm <0.05ppm
13. Chromatographic purity	Test 1: Sum of all impurities: ≤1.0% Test 2: Sum of all impurities: ≤1.0% Test 1 & Test 2: Sum of all impurities: ≤1.5%	HPLC (USP)	0.61% 0.02% 0.63%
14. Related Substances	Single impurity: not more than 0.5% Sum of all impurities: not more than 1.0%	HPLC (EP8.0)	Complies
15 Impurity F	≤0.5%	EP8.0	Complies
16. Microbial Limit Test			
(1) Standard Plate Count	≤1000cfu/g	USP <2021>	<10cfu/g
(2) Yeast & Mold	≤50cfu/g	USP <2021>	<10cfu/g
(3) Coliforms	≤3MPN/g	CP2015 P143	< 3MPN/g
(4) E. Coli	Negative/10g	USP <2022>	Negative
(5) Salmonella	Negative/25g	USP <2022>	Negative
(6) S.aureus	Negative/25g	USP <2022>	Negative
17. Content (%)	Not less than 98.0% and not more than 101.0% of $C_{59}H_{90}O_4$ calculated on the anhydrous basis	HPLC (USP)	99.40%

Conclusion: Complies with the requirements of USP43/ EP8.0/ JP17.
Storage: Store in tightly closed original container, protected from light, in a dry place at low temperature (≤ 25°C).

For & on behalf of
Inner Mongolia Kingdomway Pharmaceutical Limited

Authorized Signature

File No. XKG-I-4002-00

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Certificate of Analysis

Sample Information

CTLA ID: 101754
Date Received: 4/15/2024
Sample Name: 10625 DRM CoQ10 100%
Lot Number: 54675
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	95.4	%
Total Aerobic Microbial Count	USP <2021>	100	Report	100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
CoEnzyme Q10	HPLC	0.104	Report	101.064	%
FTIR Spectra	FTIR		Report	Attached	

4/24/2024
DATE

Quality Manager

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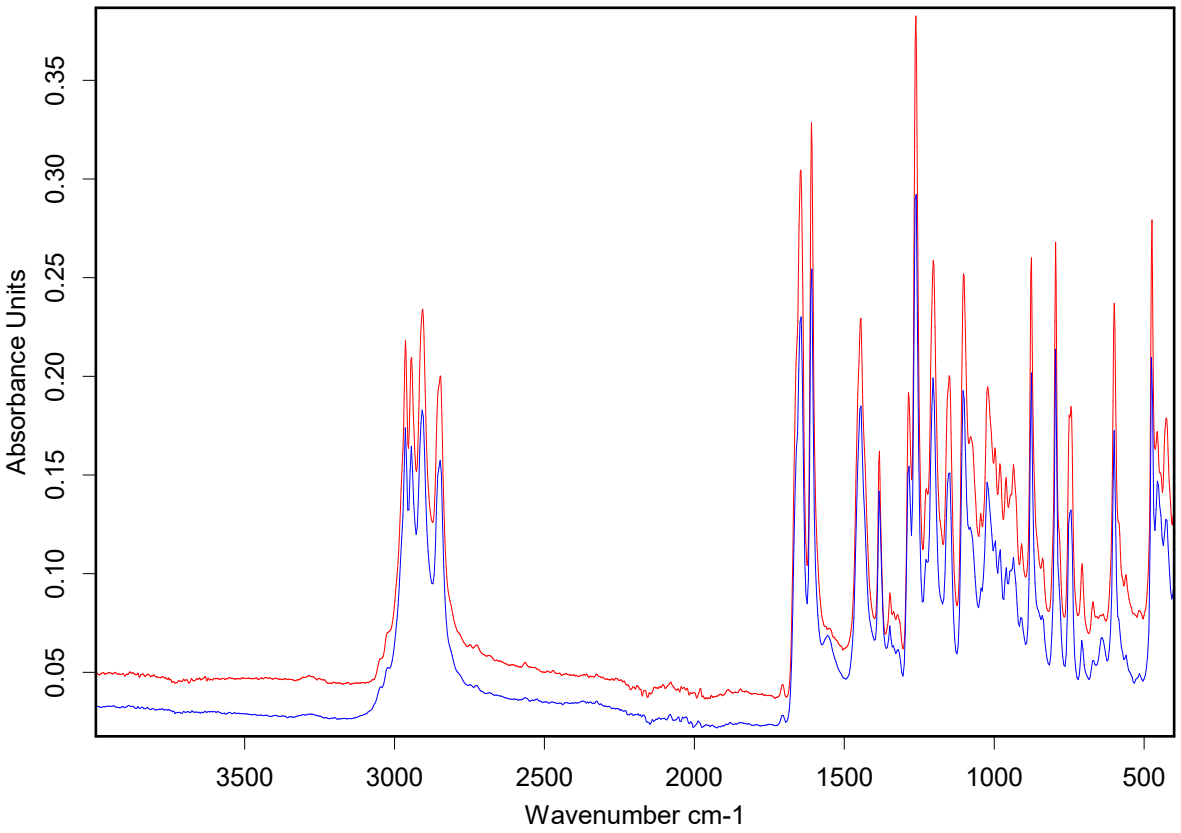

Product Number	10625 CoQ10 6742 Standard 1
Entry No.	1045
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	Origin Nutraceutical
Copyright	Origin Nutraceutical Materials Only

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	954	10625 CoQ10 6742 Standard 1			

Color	File	Path	Spectrum Type
	101754-ON 10625 DRM CoQ10 100% (54675).1	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

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Wuxi Cima Science Co., Ltd.
Tel: (86-510)-8518 8225
Fax: (86-510)-8518 5685
E-mail:info@cimasci.com

Certificate of Analysis

Product and Batch Information			
Product Name:	Dihydroberberine	**Country of Origin:**	P.R. China
Botanical Name.:	*Berberis Vulgaris*	**Batch:**	CS-NMN-230729
Manufacture Date:	Jul 29, 2023.	**Expiry Date:**	Jul 28, 2025.
Item	**Specification**	**Result**	**Test Method**
Active Ingredients			
Purity(%, on dried basis)	97.0% Min	97.80%	HPLC
Physical Control			
Appearance	Powder	Complies	Visual
Color	Yellow	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Complies	Organoleptic
Identification	Positive	Complies	TLC
Loss On Drying	1% Max	0.18%	CPh
Residue on ignition	1% Max	0.29%	CPh
Chemical Control			
Heavy metals	NMT 10PPM	Conforms	Atomic Absorption
Arsenic(As)	NMT 2ppm	Conforms	Atomic Absorption
Mercury (Hg)	NMT 2ppm	Conforms	Atomic Absorption
Cadmium(Cd)	NMT 2ppm	Conforms	Atomic Absorption
Lead (Pb)	NMT 2ppm	Conforms	Atomic Absorption
Solvents Residual	Meeting USP Standard	Conforms	Gas Chromatography
Microbiological Control			
Total Plate Count	10,000cfu/g Max	Conforms	AOAC
Yeast & Mold	300cfu/g Max	Conforms	AOAC
E.Coli	Negative	Negative	AOAC
Salmonella	Negative	Negative	AOAC
Staph Aureus	Negative	Negative	AOAC
Packing and Storage			
Packing	Pack in Paper Drum and two plastic-bags inside. 25kg/Drum		
Storage	Store in a well-closed container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		

Quality Dept. of Cima Biotech
QC Passed
QC

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Certificate of Analysis

Sample Information

CTLA ID: 104223
Date Received: 5/16/2024
Sample Name: 11343 DRM Dihydroberberine
Lot Number: 55422
Customer: Origin Nutraceutical

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

5/20/2024
DATE

Quality Manager

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Certificate of Analysis

Sample Information

CTLA ID: 106542
Date Received: 6/13/2024
Sample Name: Dihydroberberine
Lot Number: 55422
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID	FTIR		Report	NEW	%
FTIR Spectra	FTIR		Report	Attached	
Dihydroberberine	HPLC	0.379	Report	99.376	%

Amended report: sample name, spectra added
2nd Amended report: results
3rd Amended report: sample name
4th Amended report: lot number
5th Amended report: Test added

8/29/2024
DATE

Quality Manager

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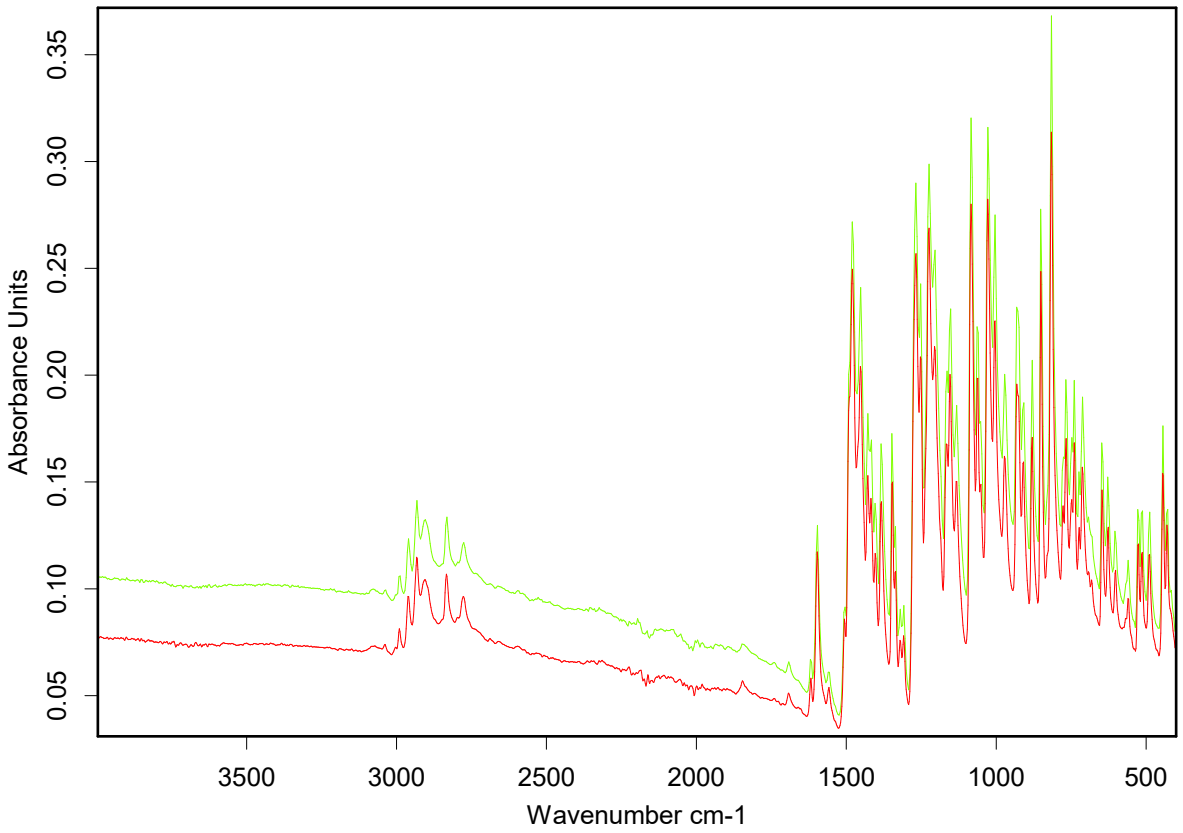

Product Number	ON 11343 DRM Dihydroberberine (55422) Sta
Entry No.	3586
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	920	ON 11343 DRM Dihydroberberine (55422) Standard 1			

Color	File	Path	Spectrum Type
	106542-ON Dihydroberberine (GV20231019).2	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\Data\MEAS	Query Spectrum

Certificate of Analysis

TR Nutritionals

Nicotinamide Riboside Chloride (NR Cl) Powder

Batch# **240125**

Manufacture Date	January 25, 2024
Retest Date	January 24, 2026

Product Characteristics

Appearance	White to light yellow powder
Country of Origin	China
Manufacturer	Jari Pharmaceuticals

Profile	Method	Specification	Result
Content	HPLC	≥ 98.0	100.1%
Purity	HPLC	≥ 98.0	99.5%
Moisture	KF	≤ 1.0%	0.18%
Residue on ignition		≤ 0.1%	0.03%
Related substances			
Nicotinamide		≤ 2.0%	0.10%
Methyl acetate		≤ 0.5%	0.03%
Nicotinamide ribose triacetate		≤ 0.5%	Not detected
Ribofuranose tetraacetate		≤ 0.5%	Not detected
Acetamide		≤ 0.5%	Not detected
Total impurities		≤ 2.0%	0.50%
Residual solvents			
Ethanol	GC	≤ 1.0%	0.01%
Particle analysis			
Retained on 40 mesh		≤ 2.0%	0%
Retained on 60 mesh		≤ 12.0%	0%
Through 80 mesh		≤ 35.0%	34.0%
Arsenic	AAS	≤ 0.5 ppm	Complies
Lead	AAS	≤ 0.5 ppm	Complies
Mercury	AAS	≤ 0.1 ppm	Complies
Cadmium	AAS	≤ 1.0 ppm	Complies
Total plate count		≤ 750 CFU/g	Complies
Yeast & molds		≤ 50 CFU/g	Complies

E. coli	Not detected	Complies
Salmonella	Not detected	Complies

Storage

Store at 0°C - 4°C in tight containers, protected from light & moisture.

TR Reference# **T2403010** **Approved by:** Mao Jian **3-6-24**

Certificate of Analysis

Sample Information

CTLA ID: 102896
Date Received: 4/30/2024
Sample Name: 11341 Nicotinamide Riboside Chloride
Lot Number: 54394
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	96.3	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
Nicotinamide Riboside Chloride	HPLC	0.047	100	99.821	%
FTIR Spectra	FTIR		Report	Attached	

5/13/2024
DATE

Quality Manager

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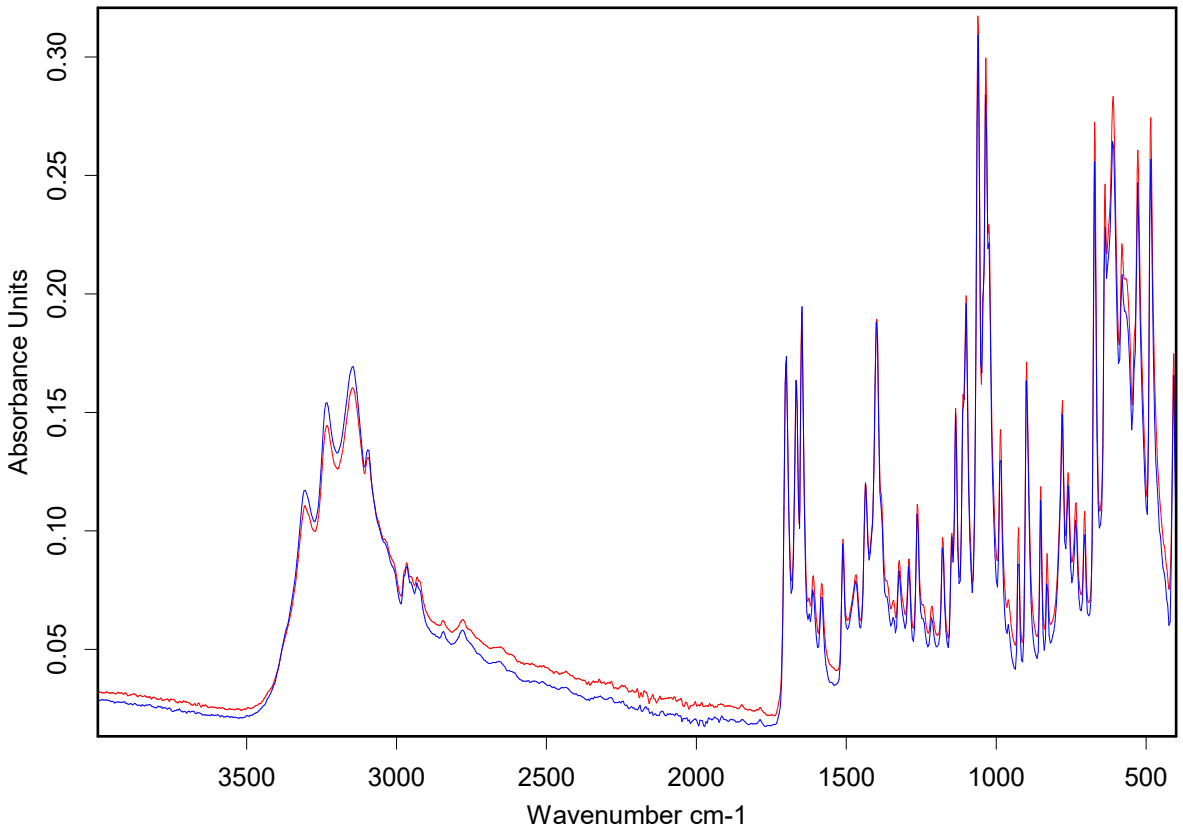

Product Number	ON 11341 DRM Nicotinamide Riboside Chlori
Entry No.	3523
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	963	ON 11341 DRM Nicotinamide Riboside Chloride (54394) Standard 1			

Color	File	Path	Spectrum Type
	102896-ON 11341 Nicotinamide Riboside Chloride (54394).	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum

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CERTIFICATE OF ANALYSIS

Resveratrol (ReserveNature™) 98% trans-Resveratrol HPLC

GENERAL INFORMATION

Lot Number	CBLLC-C-A302845	**Report Date**	08/16/2023
Manufacture Date	08/09/2023	**Expiration Date**	08/08/2026
Botanical Species	*Polygonum cuspidatum*	**Part Used**	Root
Country of Origin	China	**Carrier Used**	None
Solvent Used	Water & Ethanol	**Kosher || Halal**	Yes || Yes

ITEM	SPECIFICATION		TEST RESULTS	METHOD
PHYSICAL & CHEMICAL				
Identification	Corresponds to Reference Standard		Complies	*HPLC || USP<621>*
Appearance	Off-white fine powder		Complies	*Organoleptic*
trans-Resveratrol	NLT (%)	98.0	98.56	*HPLC || USP<621>*
Emodin	Free		Complies	*HPLC || USP<621>*
Particle Size	NLT	95% through 80 mesh	Complies	*USP<786>*
Loss on Drying	NMT (%)	1.0	0.16	*USP<731>*
Bulk Density	Between (g/100ml)	15-45	32	*USP<616>Method I*
CONTAMINANTS				
Lead (Pb)	NMT (ppm)	2.0	0.0135	*ICP-MS || USP<730>*
Arsenic (As)	NMT (ppm)	2.0	0.0050	*ICP-MS || USP<730>*
Cadmium (Cd)	NMT (ppm)	1.0	0.0490	*ICP-MS || USP<730>*
Mercury (Hg)	NMT (ppm)	1.0	0.0059	*ICP-MS || USP<730>*
Solvent Residue	Meets Requirements		Complies	*GC || USP<467>*
Pesticide Residue	Meets Requirements		Complies	*USP<565>*
MICROBIOLOGICAL				
Total Plate Count	NMT (cfu/g)	10,000	20	*USP<2021>*
Yeast & Mold	NMT (cfu/g)	1,000	30	*USP<2021>*
E.Coli.	Absent (cfu/10g)		Complies	*USP<2022>*
Salmonella	Absent (cfu/10g)		Complies	*USP<2022>*
Staphylococcus aureus	Absent (cfu/10g)		Complies	*USP<2022>*

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

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

MANUFACTURER Shaanxi Jiahe Pharmaceutical Co., Ltd

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

Completed by: Qiangang Wang **Signature:** Qian gang Wang

Title: Quality Control Manager

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Certificate of Analysis

Sample Information

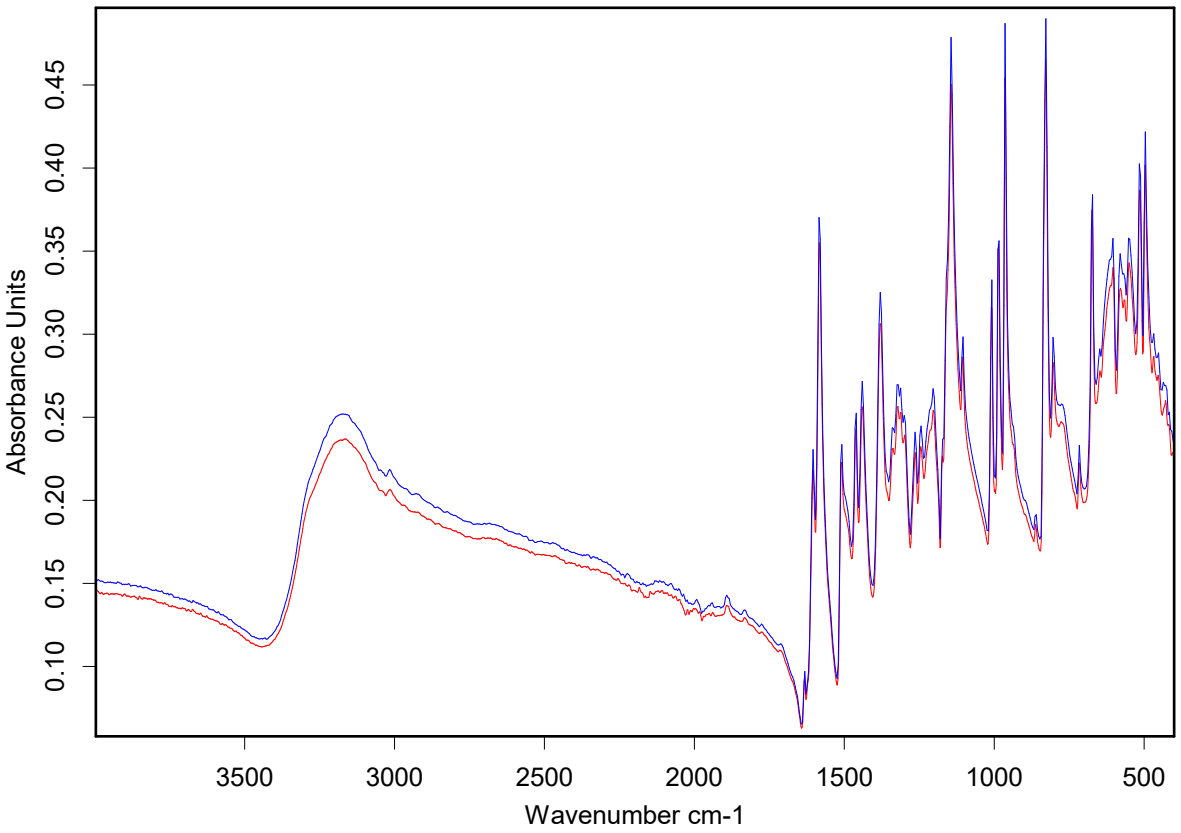
CTLA ID: 102897
Date Received: 4/30/2024
Sample Name: 11342 Trans Resveratrol 98%
Lot Number: 54080
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	99.2	%
Total Aerobic Microbial Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	USP <2021>	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
Resveratrol	HPLC	0.214	98	97.821 *	%
FTIR Spectra	FTIR		Report	Attached	

5/9/2024
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 11342 DRM Trans Resveratrol 98% (54080
Entry No.	3509
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	992	ON 11342 DRM Trans Resveratrol 98% (54080) Standard 1			

Color	File	Path	Spectrum Type
	102897-ON 11342 Trans Resveratrol 98% (54080).0	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:	L-Selenomethionine 0.5%		
Batch:	2307FH1-6		
Manufacturing Date:	July 2023	Retesting Date:	July 2026
Country of Origin:	USA		

Content	Specification	Results	Methods
Appearance:	Off-white,Beige powder	Conforms	Visual
Particle Size:	100 mesh	100 mesh screen	Ro-Tap
Selenium (Se):	≥0. 5%	0.52%	ICP
Loss on Drying:	<10%	2.6%	KF
PH:	3-9	8.0	USP
Heavy Metals:	<10 ppm	Conforms	ICP-MS
Arsenic:	<0.5 ppm	0.1ppm	ICP-MS
Cadmium:	<0.2 ppm	0.1ppm	ICP-MS
Lead:	<0.2 ppm	0.05ppm	ICP-MS
Mercury:	<0.1 ppm	0.01ppm	ICP-MS
Total Plate Count:	<1,000 cfu/g	300cfu/g	AOAC
Mold & Yeast:	<100 cfu/g	40cfu/g	AOAC
Coliforms:	<10 cfu/g	Conforms	AOAC
E. Coli:	Negative	Conforms	AOAC
Salmonella:	Negative	Conforms	FDA-BAM
Staphylococcus Aureus:	Negative	Conforms	FDA-BAM

GMO Statement:	Non-GMO
Standard:	Food grade
Treatment:	None

Digitally Signed By QC Director:

CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 102892
Date Received: 4/30/2024
Sample Name: 10188 L-Selenomethionine 0.5%
Lot Number: 52844
Customer: Origin Nutraceutical

Analysis	Method	MDL	Specification	Result	Units
ID, Rapid Complete Micro Combo					
ID	FTIR		Report	91.5	%
Total Aerobic Microbial Count	USP <2021>	100	Report	900	cfu/g
Total Coliforms	USP <2021>	10	Report	40	cfu/g
E. coli	USP <2022>		Report	Absent	
Salmonella	USP <2022>		Report	Absent	
Staphylococcus aureus <2022>	USP <2022>		Report	Absent	
Rapid Yeast and Mold	AOAC 2014.05	10	Report	<10	cfu/g
Mineral Analysis	ICP-MS	0.00001	Report	Selenium 0.595	%
FTIR Spectra	FTIR		Report	Attached	

5/8/2024
DATE

Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer.
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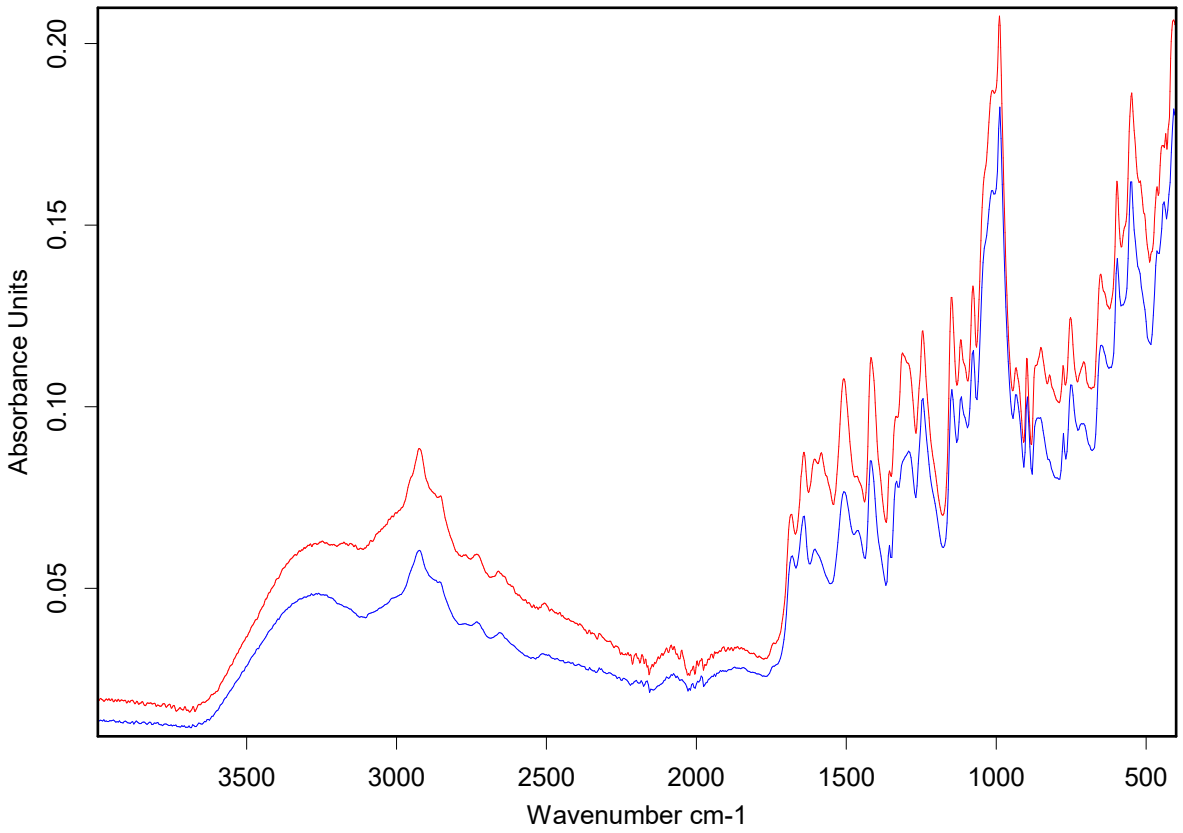

Product Number	ON 10188 DRM L-Selenomethionine 0.5% (47
Entry No.	3118
Library name	ORIGIN STANDARDS LIBRARY.S01
Library description	
Copyright	

Color	Hit Quality	Compound name	CAS Number	Molecular formula	Molecular weight
	915	ON 10188 DRM L-Selenomethionine 0.5% (47363) Standard 4			

Color	File	Path	Spectrum Type
	102892-ON 10188 L-Selenomethionine 0.5% (52844).2	C:\Users\CTLA Admin\Documents\Bruker\OPUS_7.5.18\DATA\MEAS	Query Spectrum