

November 04, 2019

GARDEN OF LIFE

4200 Northcorp Parkway
Palm Beach Gardens, FL 33410

Order No. 509461
Sample No. 1037269

SAMPLE INFORMATION

Description 6898 Dr. Formulated CBD Sleep 15mg
Lot Number W2909931 19301
Category (Type) Orally Consumed Concentrate (Tincture)
Received October 30, 2019

ANALYTICAL RESULTS

Analysis Cannabinoid Profile ✔ Pass
Instrument Liquid Chromatography Diode Array Detector (LC-DAD)
Method MF12D012
Analysis Date October 30, 2019 to November 04, 2019

Analyte	mg/g	%	mg/ml	mg/serving	mg/package	Status
Total THC	ND	ND	ND	ND	ND	Pass
Total CBD	16.647	1.6647	14.939	14.939	448.17	

Label Claims 15 mg CBD per serving
Measured Serving Weight (g) 0.8974
Servings / Unit 30
g/ml Conversion Factor 0.8974

Reported by
Anresco, Inc.




Mark Rosasco
Analyst

November 04, 2019

Limit of Quantitation: 1.0 mg/g
Limit of Detection: 0.4 mg/g
ND = None Detected
<LOQ = Below Limit of Quantitation
<LOD = Below Limit of Detection

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-000052-LIC

MANUFACTURER:

Klersun, LLC
3580 Ne Broadway Street
Portland, OR 90232



SAMPLE INFORMATION

Sample No.: 1028879
Product Name: NDT Broad Spectrum Hemp Extract
Matrix: Concentrate
Batch #: PX-19161-NDT

Date Received: 06/25/2019
Date Reported: 12/23/2019

TEST SUMMARY

Cannabinoid Profile:
Pesticide Residue Screen: ✔ Pass

Overall: ✔ Pass

CANNABINOID PROFILE

06/27/2019

Method: MF12D012
Instrument: Liquid Chromatography Diode Array Detector (LC-DAD)
Limit of Quantitation: 1.0 mg/g
Limit of Detection: 0.4 mg/g

Analyte	mg/g	%	Status
88 THC	ND	ND	✔
89 THC	2.1	0.21	✔
89 THCA	ND	ND	✔
CBD	863.6	86.36	✔
CBDA	ND	ND	✔
CBC	5.6	0.56	✔
CBDV	5.9	0.59	✔
CBG	<LOD (0.4)	<LOD (0.04)	✔
CBGA	ND	ND	✔
CBN	ND	ND	✔
Total THC	2.1	0.21	✔
Total CBD	863.6	86.36	✔
Total Cannabinoids	879.0	87.9	✔
Total Active Cannabinoids	879.0	87.9	✔

Label Claims: N/P

PESTICIDE RESIDUE SCREEN ✔ Pass

12/23/2019

Method: MF 21P030
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)	Limit (µg/g)	Status
Abamectin	0.04/0.10	ND	0.1	Pass
Azoxystrobin	0.04/0.10	ND	0.1	Pass
Bifenazate	0.04/0.10	ND	0.1	Pass
Bifenthrin	0.20/0.50	ND	3.0	Pass
Cyfluthrin	0.70/2.00	ND	2.0	Pass
Daminozide	0.04/0.10	ND	0.04	Pass
Etoxazole	0.04/0.10	ND	0.1	Pass
Fenoxycarb	0.04/0.10	ND	0.04	Pass
Imazalil	0.04/0.10	ND	0.04	Pass
Imidacloprid	0.04/0.10	ND	5.0	Pass
Myclobutanil	0.04/0.10	ND	0.1	Pass
Paclobutrazol	0.04/0.10	ND	0.04	Pass
Piperonyl Butoxide	0.04/0.10	ND	3.0	Pass
Pyrethrins	0.20/0.50	ND	0.5	Pass
Spinosad	0.04/0.10	ND	0.1	Pass
Spiromesifen	0.04/0.10	ND	0.1	Pass
Spirotetramat	0.04/0.10	ND	0.1	Pass
Trifloxystrobin	0.04/0.10	ND	0.1	Pass

OTHER ANALYSES

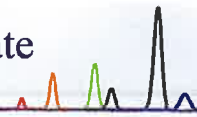
Analyte	Method	Finding	Date Completed	Status
Gluten	✔	Non Detected	06/25/2019	✔

(-) = Not Tested, ND = None Detected, <LOQ = Below Limit of Quantitation, LOD = Limit of Detection

Reported by



Scan to verify



Certificate ID: **56912** Received: **6/13/19**
 Client Sample ID: **Broad Spectrum Hemp Extract**
 Lot Number: **PX-19161-NDT**
 Matrix: **Concentrates/Extracts - CO2**



Klersun, LLC
3448 NE Broadway
Portland, OR 97232
Attn: Reed Doyle

Authorization: Jon Podgorni, Lab Manager	Signature: 	Date: 6/14/2019
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01] Analyst: *LG* Test Date: *6/14/2019*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

56912-CN

ID	Weight %	Concentration		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	88.51 wt %	885.15 mg/g		
CBDV	0.59 wt %	5.94 mg/g		
CBG	ND	ND		
CBC	0.52 wt %	5.19 mg/g		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	89.63 wt%	896.28 mg/g	0%	Cannabinoids (wt%) 88.5%
Max THC	-	-		
Max CBD	88.51 wt%	885.15 mg/g		

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LLD)

END OF REPORT

Certificate ID: **56913** Received: **6/13/19**
 Client Sample ID: **Broad Spectrum Hemp Extract**
 Lot Number: **PX-19161-NDT**
 Matrix: **Concentrates/Extracts - CO2**

 Scan QR Code
 for authenticity

Klersun, LLC
3448 NE Broadway
Portland, OR 97232
Attn: Reed Doyle

Authorization: Elizabeth R. Wagoner, Lab Director	Signature: 	Date: 6/24/2019
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The data contained within this report was collected in accordance with the requirements of ISO/IEC 17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

HM: Heavy Metal Analysis [WI-10-13]

 Analyst: *JFD*

 Test Date: *6/18/2019*

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

56913-HM

Symbol	Metal	Conc. ¹	Units	MDL	Use Limits ²		Units	Status
					All	Ingestion		
As	Arsenic	ND	µg/kg	4	200	1500	µg/kg	PASS
Cd	Cadmium	ND	µg/kg	1	200	500	µg/kg	PASS
Hg	Mercury	ND	µg/kg	2	100	1500	µg/kg	PASS
Pb	Lead	ND	µg/kg	2	500	1000	µg/kg	PASS

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

3) USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

MBI: Microbiological Contaminants [WI-10-09]

 Analyst: *MM*

 Test Date: *6/17/2019*

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

56913-MBI

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	10,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	100 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	100 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	1,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: LabAdmin

Test Date: 6/18/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

56913-MB2

Test ID	Analysis	Results	Units	Limits*	Status
56913-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
56913-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05]

Analyst: AR

Test Date: 6/19/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

56913-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	6/19/2019	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	6/19/2019	< MDL	3 ppb	< 20 ppb	PASS

PST: Pesticide Analysis [WI-10-11]

Analyst: RAS

Test Date: 6/21/2019

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

56913-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin B1a	65495-55-3	ND	ppb	0.20	300	PASS
Abamectin B1b	65195-56-4	ND	ppb	0.20	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

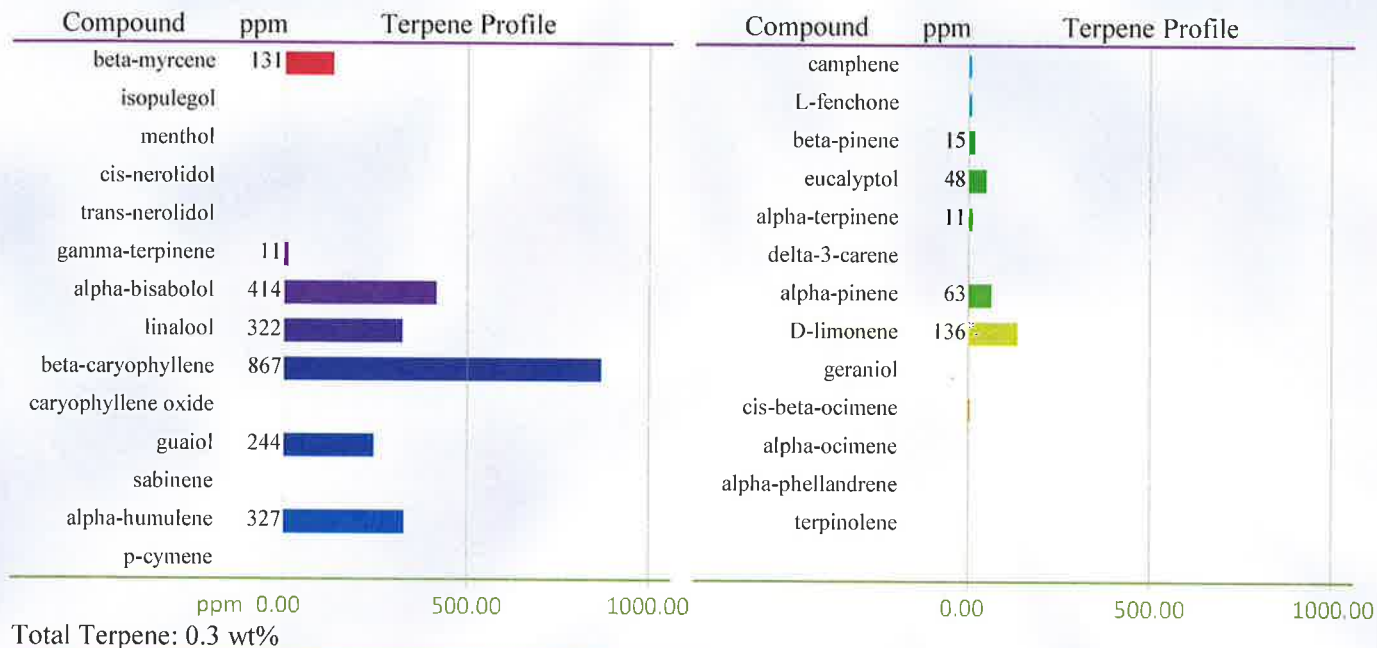
TP: Terpenes Profile [WI-10-27]

Analyst: CMA

Test Date: 6/15/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations. All values are semiquantitative estimates based on recorded peak areas relative to terpene calibration data.

56913-TP



VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: CMA

Test Date: 6/18/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

56913-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	200	PASS
Isobutane	75-28-5	ND	1,000 ppm	200	PASS
Butane	106-97-8	ND	1,000 ppm	200	PASS
Methanol	67-56-1	ND	3,000 ppm	200	PASS
Ethanol	64-17-5	ND	5,000 ppm	200	PASS
Acetone	67-64-1	ND	5,000 ppm	200	PASS
Isopropanol	67-63-0	ND	5,000 ppm	200	PASS
Acetonitrile	75-05-8	ND	410 ppm	200	PASS
Hexane	110-54-3	ND	290 ppm	200	PASS
Heptane	142-82-5	ND	5,000 ppm	200	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

END OF REPORT



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Job Number: 19-006810
Report Number: 19-006810-00
Report Date: 06/21/2019
ORELAP#: OR100028
Purchase Order:
Received: 06/13/19 10:20

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: PX-19161-NDT
Laboratory ID: 19-006810-0001

Client/Metric ID: .
Sample Date: 06/10/19 13:00

Summary



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Job Number: 19-006810
Report Number: 19-006810-00
Report Date: 06/21/2019
ORELAP#: OR100028
Purchase Order:
Received: 06/13/19 10:20

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Klersun
3448 NE Broadway St
Portland Oregon 97232
United States
Product identity: PX-19161-NDT
Client/Metric ID:
Sample Date: 06/10/19 13:00
Laboratory ID: 19-006810-0001
Relinquished by: Received By Mail
Temp: 23.7 °C
Weight Received: 4 g

Sample Results

Individual Analyses								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Glyphosate†	< LOQ		mg/kg	0.050	1905522	06/21/19	QuPPE-method, EURL-SR	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.

Testing in accordance with



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Job Number: 19-006810
Report Number: 19-006810-00
Report Date: 06/21/2019
ORELAP#: OR100028
Purchase Order:
Received: 06/13/19 10:20

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

t = Analyte not NELAP accredited.

Units of Measure

g = Gram

mg/kg = Milligram per kilogram = parts per million (ppm)

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager