



Potency Results

Sample Name: Full Spectrum Oil 1000mg

Client: Industrial Hemp Farms

Client Batch ID:

Pinnacle-Analytics.com
3549 Lear Way, Suite 101
Medford OR 97504
P:(541)300-8217

Sample ID: rC-HS-449-E2138

Date Sampled: 10/8/2024

Matrix: Tincture

Date Reported: 10/11/2024

Prep Analyst: Jeff A.

Client License: N/A

Analysis Method: 0668534+1 H4 5-24-2024 #1.lcm

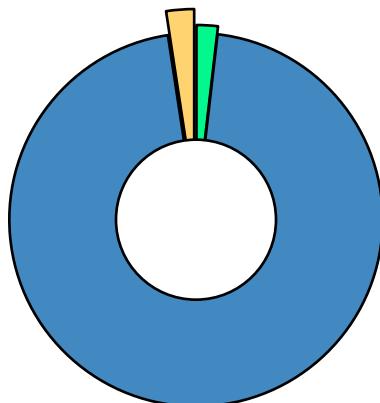
For R&D Purposes Only

Sampling Method: N/A

Reference Method: JCB 2009: HPLC/DAD

Analysis Batch: 10-9-2024 H4 109, 128, 272, 417, 449 Solids

Total THC (THCA*0.877+d9-THC) **0.154%**
Total CBD (CBDA*0.877+CBD) **6.12%**
Moisture Content **N/A**



Cannabinoid	% Weight	mg/oz
CBDVA	<LOQ	<LOQ
CBDV	<LOQ	<LOQ
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	0.118	34.9
CBD*	6.12	1810.0
THCV	<LOQ	<LOQ
CBN	<LOQ	<LOQ
d9-THC*	0.154	45.5
d8-THC*	<LOQ	<LOQ
CBC	<LOQ	<LOQ
THCA*	<LOQ	<LOQ
Total Cannabinoids	6.392	1890.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.1%, analyte not measured

- CBG
- CBD*
- d9-THC*



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Quality Control Results

Analyst: Jeff A.

Analysis Batch: 10-9-2024 H4 109, 128, 272, 417, 449 Solids

Pinnacle-Analytics.com
3549 Lear Way, Suite 101
Medford OR 97504
P:(541)300-8217

	Duplicate RPD		LCS % Recovery		Method Blank	
	HS-0-E2125-b	Limit	C-SL-100924	Limits	C-SB-100924	Limit
CBDA	<LOQ%	30%	102.0%	90-110%	<LOQ/2	LOQ/2
CBD	0.365%	10%	101.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	1.13%	10%	102.0%	90-110%	<LOQ/2	LOQ/2
d8-THC	<LOQ%	30%	101.0%	90-110%	<LOQ/2	LOQ/2
THCA	<LOQ%	30%	103.0%	90-110%	<LOQ/2	LOQ/2

RPD: Relative Percent Difference between unknown sample and its duplicate

LCS: Laboratory Control Sample with known concentration

Case Comments: There were no divergences from ordinary Quality Control procedures or SOPs.



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Certificate of Analysis

Sample:CE30321004-002

Harvest/Lot ID: N/A

Batch#: N/A

Metric Source Package #: N/A

Metric #: N/A

Harvest/Batch Date: N/A

Sample Size Received: 30 gram

Total Amount: N/A

Retail Product Size: 30 gram

Ordered : 03/21/23

Sampled : 03/21/23

Completed: 03/24/23

Sampling Method: SOP.T.20.010.OR; ORELAP

SOP-001 & -002; or Client Sampled

Pages 1 of 2

Mar 24, 2023 | Industrial Hemp Farms

License # R&D

5200 Smith Road

Denver, CO, 80216, US

PRODUCT IMAGE

SAFETY RESULTS

MISC.



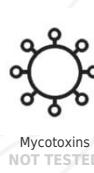
Pesticides
NOT TESTED



Heavy Metals
NOT TESTED



Microbials
NOT TESTED



Mycotoxins
NOT TESTED



Residuals Solvents
NOT TESTED



Filth
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity Testing
NOT TESTED



Terpenes
NOT TESTED



Cannabinoid

TESTED



Total THC
<LOQ



Total CBD
6.8277%



Total Cannabinoids
7.0338%

	CBDV	CBG	CBD	CBDA	THCV	CBGa	CBN	D9-THC	DB-THC	CBC	THCA	CBCA
%	<LOQ	0.1557	6.8277	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	0.0504	<LOQ	<LOQ
mg/g	<LOQ	1.557	68.277	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	0.504	<LOQ	<LOQ
LOQ	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:

14, 11, 12

Weight:

0.938g

Extraction date:

03/22/23 11:07:21

Extracted by:

771

Analysis Method : N/A

Analytical Batch : CE002164POT

Instrument Used : HPLC 2030 EID 0055

Running on : N/A

Dilution : 820

Reagent : 010123.07; 010123.11; 101022.05

Consumables : 21/12/28; 080922-C; 210411; ASC000H02026BSF; 12543-225CD-225C; 041C-041AL; 00331867-5 00333720-5 00332100-2 00331868-5; 2132

Pipette : Gilson Positive Displacement 100-1000ul EID: 0152; VWR 20-200ul EID: 0182

"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta-9-THC, delta-8-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Instrument LOQ for all cannabinoids is 0.5 ug/mL, LOQ is reported 'in matrix' and dependent on extraction parameters. FD = Field Duplicate; LOQ = Limit of Quantitation, ND= Not Detected

Reviewed On : 03/24/23 10:43:11

Batch Date : 03/22/23 10:00:38

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Stephanie Moon

Lab Director

State License # 010-10166277B9D
ISO 17025 Accreditation # 99861

03/24/23

Signed On

Signature



POTENCY BATCH QC REPORT

Page 2 of 2



METHOD BLANK

Cannabinoid

CBDV_WET
CBDVA_WET
CBG_WET
CBD_WET
CBDA_WET
THCV_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05

Result

<LOQ
NT
<LOQ
<LOQ
<LOQ
NT
<LOQ
<LOQ
<LOQ
<LOQ
<LOQ
<LOQ

Units

%
%
%
%
%
%
%
%
%
%
%
%

Analytical Batch - CE002164POT

Instrument Used : HPLC 2030 EID 0055



LCS

Cannabinoid

CBG_WET
CBD_WET
CBDA_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05

Recovery

101.1
100.9
100.8
104.2
99.2
99.3
106.1
101.2
99.6

Units

%
%
%
%
%
%
%
%
%

Recovery Limits

80-120
90-110
90-110
80-120
80-120
90-110
90-110
80-120
90-110

Analytical Batch - CE002164POT

Instrument Used : HPLC 2030 EID 0055



Certificate of Analysis

Mar 24, 2023 | Industrial Hemp Farms

License # R&D

5200 Smith Road
Denver, CO, 80216, US

Sample:CE30321004-003

Harvest/Lot ID: N/A

Batch#: N/A

Metric Source Package # : N/A

Metric #: N/A

Harvest/Batch Date: N/A

Sample Size Received: 30 gram

Total Amount: N/A

Retail Product Size: 30 gram

Ordered : 03/21/23

Sampled : 03/21/23

Completed: 03/24/23

Sampling Method: SOP.T.20.010.OR; ORELAP SOP-001 & -002; or Client Sampled

Pages 1 of 2

PRODUCT IMAGE

SAFETY RESULTS

MISC.



Pesticides
NOT TESTED



Heavy Metals
NOT TESTED



Microbials
NOT TESTED



Mycotoxins
NOT TESTED



Residual Solvents
NOT TESTED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity Testing
NOT TESTED



Terpenes
NOT TESTED



Cannabinoid

TESTED



Total THC
0.0743%



Total CBD
10.9041%



Total Cannabinoids
11.3448%

	CBDV	CBG	CBD	CBDA	THCV	CBGA	CBN	D9-THC	D8-THC	CBC	THCA	CBCA
%	0.0582	0.2139	10.9041	<LOQ	<LOQ	<LOQ	<LOQ	0.0743	<LOQ	0.0943	<LOQ	<LOQ
mg/g	0.582	2.139	109.041	<LOQ	<LOQ	<LOQ	<LOQ	0.743	<LOQ	0.943	<LOQ	<LOQ
LOQ	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
14, 11, 12

Weight:
0.947g

Extraction date:
03/22/23 11:07:21

Extracted by:
771

Analysis Method : N/A

Analytical Batch : CE002164POT

Instrument Used : HPLC 2030 EID 0055

Running on : N/A

Dilution : 820

Reagent : 010123.07; 010123.11; 101022.05

Consumables : 21/12/28; 080922-C; 210411; ASC000H02026BSF; 12543-225CD-225C; 041C-041AL; 00331867-5 00333720-5 00332100-2 00331868-5; 2132

Pipette : Gilson Positive Displacement 100-1000ul EID: 0152; VWR 20-200ul EID: 0182

"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta-9-THC, delta-8-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Instrument LOQ for all cannabinoids is 0.5 ug/mL, LOQ is reported 'in matrix' and dependent on extraction parameters. FD = Field Duplicate; LOQ = Limit of Quantitation, ND= Not Detected

Reviewed On : 03/24/23 10:43:13
Batch Date : 03/22/23 10:00:38

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Stephanie Moon

Lab Director

State License # 010-10166277B9D
ISO 17025 Accreditation # 99861

03/24/23

Signature

Signed On



POTENCY BATCH QC REPORT

Page 2 of 2



METHOD BLANK

Cannabinoid

CBDV_WET
CBDVA_WET
CBG_WET
CBD_WET
CBDA_WET
THCV_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05

Result

<LOQ
NT
<LOQ
<LOQ
<LOQ
NT
<LOQ
<LOQ
<LOQ
<LOQ
<LOQ
<LOQ

Units

%
%
%
%
%
%
%
%
%
%
%
%

Analytical Batch - CE002164POT

Instrument Used : HPLC 2030 EID 0055



LCS

Cannabinoid

CBG_WET
CBD_WET
CBDA_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.05

Recovery

101.1
100.9
100.8
104.2
99.2
99.3
106.1
101.2
99.6

Units

%
%
%
%
%
%
%
%
%

Recovery Limits

80-120
90-110
90-110
80-120
80-120
90-110
90-110
80-120
90-110

Analytical Batch - CE002164POT

Instrument Used : HPLC 2030 EID 0055



Potency Results

Sample Name: Full Spectrum Oil 5000mg

Client: Industrial Hemp Farms

Client Batch ID:

Pinnacle-Analytics.com
3549 Lear Way, Suite 101
Medford OR 97504
P:(541)300-8217

Sample ID: rC-HS-449-E2140

Date Sampled: 10/8/2024

Matrix: Tincture

Date Reported: 10/11/2024

Prep Analyst: Jeff A.

Client License: N/A

Analysis Method: 0668534+1 H4 5-24-2024 #1.lcm

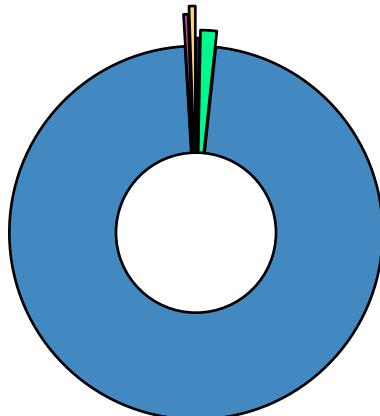
For R&D Purposes Only

Sampling Method: N/A

Reference Method: JCB 2009: HPLC/DAD

Analysis Batch: 10-9-2024 H4 449 Solids

Total THC (THCA*0.877+d9-THC) **0.0974%**
Total CBD (CBDA*0.877+CBDA) **17.5%**
Moisture Content **N/A**



Cannabinoid	% Weight	mg/oz
CBDVA	<LOQ	<LOQ
CBDV	0.0534	15.8
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	0.252	74.5
CBD*	17.5	5170.0
THCV	<LOQ	<LOQ
CBN	0.0715	21.1
d9-THC*	0.0974	28.8
d8-THC*	<LOQ	<LOQ
CBC	<LOQ	<LOQ
THCA*	<LOQ	<LOQ
Total Cannabinoids	17.97	5310.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.04%, analyte not measured

- █ CBDV
- █ CBN
- █ CBG
- █ d9-THC*
- █ CBD*



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Kris Ford, PhD
Lab Director



Quality Control Results

Analyst: Jeff A.

Analysis Batch: 10-9-2024 H4 449 Solids

Pinnacle-Analytics.com
3549 Lear Way, Suite 101
Medford OR 97504
P:(541)300-8217

	Duplicate RPD		LCS % Recovery		Method Blank	
	CS-0-E1219-i	Limit	C-SL-100924-b	Limits	C-SB-100924-b	Limit
CBDA	0.95%	10%	101.0%	90-110%	<LOQ/2	LOQ/2
CBD	0.976%	10%	99.9%	90-110%	<LOQ/2	LOQ/2
d9-THC	0.154%	10%	102.0%	90-110%	<LOQ/2	LOQ/2
d8-THC	1.75%	10%	99.4%	90-110%	<LOQ/2	LOQ/2
THCA	0.909%	10%	101.0%	90-110%	<LOQ/2	LOQ/2

RPD: Relative Percent Difference between unknown sample and its duplicate

LCS: Laboratory Control Sample with known concentration

Case Comments: There were no divergences from ordinary Quality Control procedures or SOPs.



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Certificate of Analysis

Jan 10, 2023 | Industrial Hemp Farms

License # R&D

5200 Smith Road
Denver, CO, 80216, US

Pages 1 of 2

Sample:CE30109001-002

Harvest/Lot ID: N/A

Batch#: N/A

Metric Source Package #: N/A

Metric #: N/A

Batch Date: N/A

Sample Size Received: 30 gram

Total Amount: N/A

Retail Product Size: N/A gram

Ordered : 01/09/23

Sampled : 01/09/23

Completed: 01/10/23

Sampling Method: SOP.T.20.010.OR; ORELAP SOP-001 & -002; or Client Sampled

PRODUCT IMAGE



SAFETY RESULTS

	Pesticides NOT TESTED		Heavy Metals NOT TESTED		Microbials NOT TESTED		Mycotoxins NOT TESTED		Residuals Solvents NOT TESTED		Filth NOT TESTED		Water Activity NOT TESTED		Moisture NOT TESTED		Homogeneity Testing NOT TESTED		Terpenes NOT TESTED
--	--------------------------	--	----------------------------	--	--------------------------	--	--------------------------	--	----------------------------------	--	---------------------	--	------------------------------	--	------------------------	--	-----------------------------------	--	------------------------



Cannabinoid

TESTED



Total THC
0.0556%



Total CBD
27.8652%



Total Cannabinoids
28.1272%



Analyzed by:
11, 14

Weight:
0.963g

Extraction date:
01/09/23 12:49:52

Extracted by:
14

Analysis Method : N/A
Analytical Batch : CE001783POT
Instrument Used : HPLC 2030 EID 0055 - Low Concentration
Running on : 01/10/23 09:39:19

Reviewed On : 01/10/23 12:01:46
Batch Date : 01/09/23 12:46:34

Dilution : 820
Reagent : 121322.R09; 122222.R01; 110322.07; 120920.02
Consumables : 11/21/25; 080922-C; 210411; 2210449; ASC000H02026BSF; 12543-225CD-225C; 041C-041AL; 00312590-5 0032165-6 00323608-5 282851; 2132
Pipette : Gilson Positive Displacement 100-1000ul EID: 0152; VWR 20-200ul EID: 0182

"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta-9-THC, delta-8-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Instrument LOQ for all cannabinoids is 0.5 ug/mL, LOQ is reported 'in matrix' and dependent on extraction parameters. FD = Field Duplicate; LOQ = Limit of Quantitation, ND= Not Detected

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Anthony Smith

Lab Director

State License # 010-10166277899
ISO 17025 Accreditation # 99861

01/10/23

Signed On

Signature



POTENCY BATCH QC REPORT

Page 2 of 2



METHOD BLANK

Cannabinoid

CBDV_WET
CBDVA_WET
CBG_WET
CBD_WET
CBDA_WET
THCV_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002

Result

0
NT
0
0
0
NT
0
0
0
0
0
0

Units

%
%
%
%
%
%
%
%
%
%
%
%

Analytical Batch - CE001783POT

Instrument Used : HPLC 2030 EID 0055 - Low Concentration



LCS

Cannabinoid

CBG_WET
CBD_WET
CBDA_WET
CBGA_WET
CBN_WET
D9-THC_WET
D8-THC_WET
CBC_WET
THCA_WET

LOQ

0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.002

Recovery

94.5
96.1
96.9
93.6
95.9
96.4
101
95.8
98.1

Units

%
%
%
%
%
%
%
%
%

Recovery Limits

80-120
90-110
90-110
80-120
80-120
90-110
90-110
80-120
90-110

Analytical Batch - CE001783POT

Instrument Used : HPLC 2030 EID 0055 - Low Concentration