



PINNACLE ANALYTICS

Potency Results

Sample Name: *THCa*
Client:
Client Batch ID:

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

Sample ID: rC-CS-160-C826

Date Sampled: 10/31/2022

Matrix: Concentrate

Date Reported: 11/3/2022

Prep Analyst: Jeff A.

Client License: N/A

Analysis Method: 0630322+5 H4 4-21-2022 #3.lcm

656 West Dutton Road

Sampling Method: N/A

Eagle Point OR 97524

Reference Method: JCB 2009: HPLC/DAD

For R&D Purposes Only

Analysis Batch: 10-31-2022 H4 111, 160, 234, 284, 307 Solids

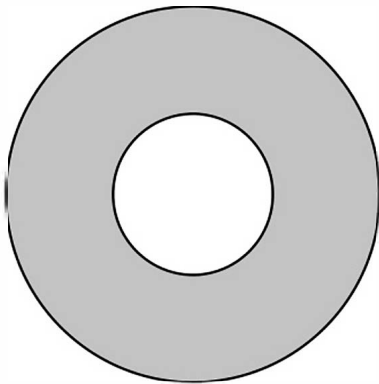
Total THC (THCA*0.877+d9-THC) 87.7%
Total CBD (CBDA*0.877+CBD) <LOQ%
Moisture Content N/A

Cannabinoid	% Weight	mg/g
CBDVA	<LOQ	<LOQ
CBDV	<LOQ	<LOQ
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	<LOQ	<LOQ
CBD*	<LOQ	<LOQ
THCV	<LOQ	<LOQ
CBN	<LOQ	<LOQ
d9-THC*	<LOQ	<LOQ
d8-THC	<LOQ	<LOQ
9S-HHC	<LOQ	<LOQ
9R-HHC	<LOQ	<LOQ
CBC	<LOQ	<LOQ
THCA*^	100.0	1000.0
d9-THCO	<LOQ	<LOQ
d9-THCO	<LOQ	<LOQ
Total Cannabinoids	100.0	1000.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.2%, analyte not measured

^Raw Result for THCA was 102.9%



Other



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Report generated by HHC_Potency_Rev2_9-6-2022

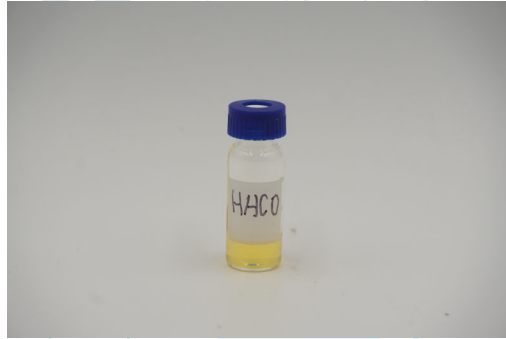
Kris Ford, PhD
Lab Director

HHCO

 Sample ID: SA-230406-19930
 Batch: Validation
 Type: In-Process Materials
 Matrix: Concentrate - Distillate
 Unit Mass (g):

 Received: 04/06/2023
 Completed: 04/17/2023

Client

 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Summary

Test Cannabinoids	Date Tested 04/17/2023	Status Tested
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ND Total Δ9-THC	68.8 % (6aR,9R,10aR)-HHC acetate	95.3 % Total Cannabinoids	Not Tested Moisture Content	Not Tested Foreign Matter	Yes Internal Standard Normalization
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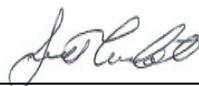
Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBG	0.0057	0.0172	ND	ND
CBL	0.0112	0.0335	ND	ND
CBN	0.0056	0.0169	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCV	0.0069	0.0206	ND	ND
(6aR,9R,10aR)-HHC acetate	0.0067	0.02	68.8	688
(6aR,9S,10aR)-HHC acetate	0.0067	0.02	26.4	264
Total Δ9-THC			ND	ND
Total			95.3	953

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



 Generated By: Ryan Bellone
 CCO
 Date: 04/17/2023



 Tested By: Scott Caudill
 Senior Scientist
 Date: 04/17/2023

 ISO/IEC 17025:2017 Accredited
 Accreditation #108651


Arvida Labs THCp

 Sample ID: SA-230321-18754
 Batch: AL-THCp-0001
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

 Collected: 03/21/2023
 Received: 03/22/2023
 Completed: 03/27/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

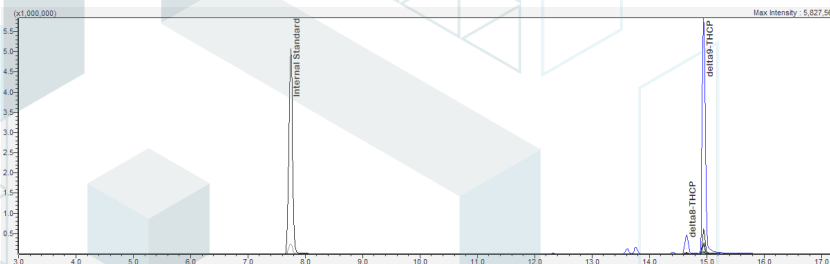

Summary

Test Cannabinoids	Date Tested 03/27/2023	Status Tested
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ND Total Δ9-THC	88.9 % Δ9-THCP	94.8 % Total Cannabinoids	Not Tested Moisture Content	Not Tested Foreign Matter	Yes Internal Standard Normalization
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Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCA	0.0181	0.0543	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDa	0.0043	0.013	ND	ND
CBDP	0.0067	0.02	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	ND	ND
CBNA	0.006	0.0181	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ8-THCP	0.0067	0.02	5.82	58.2
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCA	0.0084	0.0251	ND	ND
Δ9-THCP	0.0067	0.02	88.9	889
Δ9-THCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
Total Δ9-THC			ND	ND
Total CBD			ND	ND
Total			94.8	948



ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



 Generated By: Ryan Bellone
 CCO
 Date: 03/27/2023



 Tested By: Scott Caudill
 Senior Scientist
 Date: 03/27/2023

 ISO/IEC 17025:2017 Accredited
 Accreditation #108651


HHCP

 Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

 Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

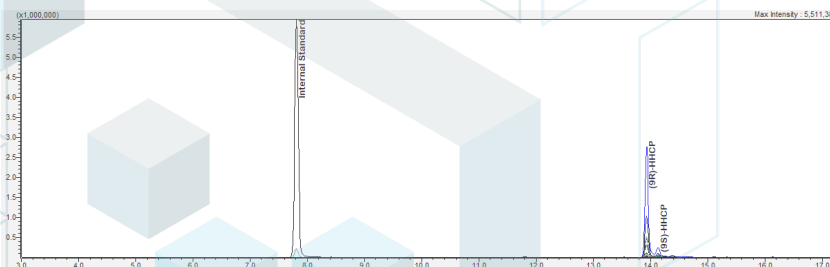

Summary

Test	Date Tested	Status
Cannabinoids	03/17/2023	Tested
Catalyst Metals	03/21/2023	Tested
Foreign Matter	03/15/2023	Tested
Heavy Metals	03/17/2023	Tested
Microbials	03/23/2023	Tested
Mycotoxins	03/16/2023	Tested
Pesticides	03/16/2023	Tested
Residual Solvents	03/15/2023	Tested

ND Total Δ9-THC	72.3 % 9R-HHCP	80.9 % Total Cannabinoids	Not Tested Moisture Content	Not Detected Foreign Matter	Yes Internal Standard Normalization
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Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCA	0.0181	0.0543	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDa	0.0043	0.013	ND	ND
CBDP	0.0067	0.02	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	ND	ND
CBNA	0.006	0.0181	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ8-THCP	0.0067	0.02	ND	ND
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCA	0.0084	0.0251	ND	ND
Δ9-THCP	0.0067	0.02	ND	ND
Δ9-THCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
(6aR,9R,10aR)-HHC	0.0067	0.02	ND	ND
(6aR,9S,10aR)-HHC	0.0067	0.02	ND	ND
9R-HHCP	0.0067	0.02	72.3	723
9S-HHCP	0.0067	0.02	8.66	86.6
Total Δ9-THC			ND	ND
Total CBD			ND	ND
Total			80.9	809



ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA

 Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023

 Tested By: Scott Caudill
 Senior Scientist
 Date: 03/17/2023

 ISO/IEC 17025:2017 Accredited
 Accreditation #108651


HHCP

Sample ID: SA-230313-18092
Batch: HHCP-032023
Type: Finished Products
Matrix: Concentrate - Distillate
Unit Mass (g):

Received: 03/14/2023
Completed: 03/23/2023

Client
Arvida Labs
1291 NW 65th PL Unit B
Fort Lauderdale, FL 33309
USA



Generated By: Ryan Bellone
CCO

Date: 03/23/2023



HHCP

Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
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Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Arsenic	2	20	ND
Cadmium	1	20	ND
Lead	2	20	ND
Mercury	12	50	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



Tested By: Kelsey Rogers
 Scientist
 Date: 03/17/2023



HHCP

 Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

 Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acephate	30	100	ND	Hexythiazox	30	100	ND
Acetamiprid	30	100	ND	Imazalil	30	100	ND
Aldicarb	30	100	ND	Imidacloprid	30	100	ND
Azoxystrobin	30	100	ND	Kresoxim methyl	30	100	ND
Bifenazate	30	100	ND	Malathion	30	100	ND
Bifenthrin	30	100	ND	Metalaxyl	30	100	ND
Boscalid	30	100	ND	Methiocarb	30	100	ND
Carbaryl	30	100	ND	Methomyl	30	100	ND
Carbofuran	30	100	ND	Mevinphos	30	100	ND
Chloranthraniliprole	30	100	ND	Myclobutanil	30	100	ND
Chlorfenapyr	30	100	ND	Oxamyl	30	100	ND
Chlorpyrifos	30	100	ND	Paclobutrazol	30	100	ND
Clofentezine	30	100	ND	Permethrin	30	100	ND
Coumaphos	30	100	ND	Phosmet	30	100	ND
Daminozide	30	100	ND	Piperonyl Butoxide	30	100	ND
Diazinon	30	100	ND	Prallethrin	30	100	ND
Dichlorvos	30	100	ND	Propiconazole	30	100	ND
Dimethoate	30	100	ND	Propoxur	30	100	ND
Dimethomorph	30	100	ND	Pyrethrins	30	100	ND
Ethoprophos	30	100	ND	Pyridaben	30	100	ND
Etofenprox	30	100	ND	Spinetoram	30	100	ND
Etoxazole	30	100	ND	Spinosad	30	100	ND
Fenhexamid	30	100	ND	Spiromesifen	30	100	ND
Fenoxycarb	30	100	ND	Spirotetramat	30	100	ND
Fenpyroximate	30	100	ND	Spiroxamine	30	100	ND
Fipronil	30	100	ND	Tebuconazole	30	100	ND
Fonicamid	30	100	ND	Thiacloprid	30	100	ND
Fludioxonil	30	100	ND	Thiamethoxam	30	100	ND
				Trifloxystrobin	30	100	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



 Tested By: Jasper van Heemst
 Principal Scientist
 Date: 03/16/2023


HHCP

Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
G2	1	5	ND
Ochratoxin A	1	5	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



Tested By: Jasper van Heemst
 Principal Scientist
 Date: 03/16/2023



HHCP

Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

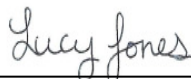
Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)
Total aerobic count	1	ND
Total coliforms	1	ND
Generic E. coli	1	ND
Salmonella spp.	1	ND
Shiga-toxin producing E. coli (STEC)	1	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



Tested By: Lucy Jones
 Scientist
 Date: 03/23/2023



HHCP

 Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

 Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	129	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5	1	ND	2-Methylbutane	10	29	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



 Tested By: Scott Caudill
 Senior Scientist
 Date: 03/15/2023


HHCP

Sample ID: SA-230313-18092
 Batch: HHCP-032023
 Type: Finished Products
 Matrix: Concentrate - Distillate
 Unit Mass (g):

Received: 03/14/2023
 Completed: 03/23/2023

Client
 Arvida Labs
 1291 NW 65th PL Unit B
 Fort Lauderdale, FL 33309
 USA

Catalyst Metals

Analyte	Result	Unit	LOD	LOQ
Platinum (Pt)	ND	ppb	3	10
Rhodium (Rh)	ND	ppb	3	10
Ruthenium (Ru)	ND	ppb	3	10
Nickel (Ni)	14.9	ppb	3	10
Palladium (Pd)	ND	ppb	3	10



Generated By: Ryan Bellone
 CCO
 Date: 03/23/2023



Tested By: Kelsey Rogers
 Scientist
 Date: 03/21/2023

