



Certificate of Analysis

R&D

Client Information:

CRESCENT DISTRIBUTIONS
4505 MAGAZINE STREET
NEW ORLEANS, LA 70115

Batch # CCHHC_1001
Batch Date: 2023-04-12
Extracted From: Hemp Flower

Test Reg State: Oregon

Order # CRE230412-010001

Order Date: 2023-04-12

Sample # AAEI505

Sampling Date: 2023-04-14

Lab Batch Date: 2023-04-14

Orig. Completion Date: 2023-04-20

Initial Gross Weight: 75.506 g

Statement of Amendment: Updated Retest results; HHCP



Product Image



Potency
Tested



HHC Metals
Passed



HHCP
Tested



Terpenes
Tested



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Pathogenic Microbiology
Passed



Listeria Monocytogenes
Passed



Potency 25 (LCUV)

Specimen Weight: 59.390 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	SOP13.002 (LCUV) (%)
CBD	1000.000	5.40E-5	0.0015	309.0010	30.9001
CBDV	10.000	6.50E-5	0.0015	1.4130	0.1413
CBN	10.000	1.40E-5	0.0015	0.6750	0.0675
CBT	10.000	2.00E-4	0.0015	0.6570	0.0657
CBNA	10.000	9.50E-5	0.0015	0.3290	0.0329
CBC	100.000	1.80E-5	0.0015	<LOQ	<LOQ
CBCA	10.000	1.07E-4	0.0015	<LOQ	<LOQ
CBD A	10.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.0015	<LOQ	<LOQ
CBG	10.000	2.48E-4	0.0015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.0015	<LOQ	<LOQ
CBL	10.000	3.50E-5	0.0015	<LOQ	<LOQ
Delta-8 THC	10.000	2.60E-5	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	10.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THCV	10.000	4.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	100.000	1.30E-5	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	10.000	7.70E-5	0.003	<LOQ	<LOQ
Delta8-THCP *	10.000	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP *	10.000	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	10.000	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
THCB *	10.000	1.80E-4	0.00195	<LOQ	<LOQ
THCH *	10.000	3.50E-4	0.00195	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.0015	<LOQ	<LOQ
THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD	1000.000			309.001	30.900
Total Active THC	1000.000			<LOQ	<LOQ

Tested

SOP13.002 (LCUV)



Potency Summary

Total HHC 60.344%	Total Active THC None Detected
Total Active CBD 30.900%	Total CBG None Detected
Total CBN 0.096%	Other Cannabinoids 0.190%
Total Cannabinoids 91.530%	



Terpenes Summary

Analyte	Result (mg/g)	(%)
Ocimene	34.933	3.493%
Terpinolene	13.717	1.372%
beta-Myrcene	11.123	1.112%
(R)-(+)-Limonene	5.226	0.523%
alpha-Pinene	4.87	0.487%
trans-Caryophyllene	4.642	0.464%
alpha-Humulene	2.51	0.251%
beta-Pinene	2.425	0.243%
alpha-Phellandrene	2.169	0.217%
alpha-Bisabolol	1.153	0.115%
alpha-Terpinene	0.849	0.085%
Gamma-Terpinene	0.774	0.077%

Total Terpenes: 8.439%

Detailed Terpenes Analysis is on the following page

Aixa Sun

Lab Director/Principal Scientist

D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta8a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit, *Measurement of Uncertainty = +/- 10% Revised report- see statement of amendment above.

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Sample # AAEI505

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Lab Batch Date: 2023-04-14
Orig. Completion Date: 2023-04-20

Initial Gross Weight: 75.506 g



Terpenes

Specimen Weight: 44.500 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Ocimene	0.00033	34.933	3.493	cis-Nerolidol	0.002	<LOQ	<LOQ
Terpinolene	0.002	13.717	1.372	Eucalyptol	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	11.123	1.112	Farnesene	0.002	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	5.226	0.523	Fenchone	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	4.870	0.487	Fenchyl Alcohol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	4.642	0.464	Geraniol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	2.510	0.251	Geranyl acetate	0.002	<LOQ	<LOQ
beta-Pinene	0.002	2.425	0.243	Guaiol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	2.169	0.217	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	1.153	0.115	Isobomeol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	0.849	0.085	Isopulegol	0.002	<LOQ	<LOQ
Gamma-Terpinene	0.002	0.774	0.077	Linalool	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Sabinene	0.002	<LOQ	<LOQ
Borneol	0.004	<LOQ	<LOQ	Sabinene Hydrate	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ	<LOQ	Total Terpeneol	0.00126	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ



Listeria Monocytogenes

Specimen Weight: 976.200 mg



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1014.600 mg



Pathogenic Microbiology SAE (MicroArray)

SOP13.019 (Micro Array)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Listeria Monocytogenes	1	Absence in 1g	Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
			Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
			Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g


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D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Mycotoxins

Specimen Weight: 255.200 mg

Passed **HHCP**

SOP13.007 (LCMS)

HHCP

Specimen Weight: 59.390 mg

Tested

SOP13.050 (LCMS)

Dilution Factor: 5.880

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ	(9R)-HHCP	3.1100E-7	7.5E-5	310.4839	31.04839	9(S)-HHCP	2.5500E-6	7.5E-5	<LOQ	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ	(9S)-HHCP	8.7400E-7	7.5E-5	291.6967	29.16967	Delta-9 THC	2.8000E-5	7.5E-5	<LOQ	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ						(±)-9B-hydroxy-HHC	4.5800E-7	7.5E-5	1.2558	0.12558	Total HHC			603.4364	60.34364
										9(R)-HHCP	3.0900E-6	7.5E-5	<LOQ	<LOQ					



HHC Metals

Specimen Weight: 245.340 mg

Passed

SOP13.051 (ICP-MS)

Residual Solvents - FL (CBD)

Specimen Weight: 11.000 mg

Passed

SOP13.056 (GCMS)

Dilution Factor: 203.799

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
Arsenic (As)	1.9E-2	100	200	<LOQ	Nickel (Ni)	1.5E-1	250	500	<LOQ	1,1-Dichloroethene	0.0094	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
Cadmium (Cd)	4.0E-3	100	200	<LOQ	Palladium (Pd)	7.0E-3	50	100	<LOQ	1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Lead (Pb)	1.0E-2	100	500	<LOQ	Platinum (Pt)	1.3E-2	50	100	<LOQ	Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Mercury (Hg)	4.4E-2	100	200	<LOQ	Zinc (Zn)	4.1E-1	1000	na	<LOQ	Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	<LOQ

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Pesticides

Specimen Weight: 255.200 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 5.880

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	100	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Etoxazole	9.5000E-2	30	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ					


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