



Certificate of Analysis
Compliance Test

Client Information:

BIOTA BIOSCIENCES
1601 5th Ave.
Ste 1100
Seattle, WA 98101

Batch # 220421
Batch Date: 2022-08-08
Extracted From: Hemp

Test Reg State: Oregon

Production Facility: BIOTA Biosciences
Production Date: 2022-08-08

Order # BIO221114-010001
Order Date: 2022-11-14
Sample # AADS650

Sampling Date: 2022-11-16
Lab Batch Date: 2022-11-16
Orig. Completion Date: 2022-11-21

Initial Gross Weight: 78.902 g
Net Weight: 27.402 g
Density: 1.026 g/ml
Volume: 30 ml

Number of Units: 1
Net Weight per Unit: 27402.000 mg

Statement of Amendment: Updated Other Panel (F12 panel on report); Change D9 LOQ



Product Image



Potency
Tested



Terpenes
Tested



Heavy Metals
Passed



Pesticides
Passed



Residual Solvents
Passed



Filth and Foreign
Passed

Potency 10
Specimen Weight: 112.710 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	Result (%)
CBD	100.000	5.40E-5	0.0015	233.4560	22.7540
CBG	100.000	2.48E-4	0.0015	67.5720	6.5860
CBDV	100.000	6.50E-5	0.0015	1.3130	0.1280
CBC	100.000	1.80E-5	0.0015	0.6260	0.0610
CBDA	100.000	1.00E-5	0.0015	<LOQ	<LOQ
CBGA	100.000	8.00E-5	0.0015	<LOQ	<LOQ
CBN	100.000	1.40E-5	0.0015	<LOQ	<LOQ
Delta-9 THC *	100.000	1.30E-5	0.05	<LOQ	<LOQ
THCA-A	100.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	100.000	7.00E-6	0.0015	<LOQ	<LOQ
Total Active CBD	100.000			227.540	22.754
Total Active THC	100.000			<LOQ	<LOQ

Tested
SOP13.001 (LCUV)

Potency Summary

Total Active THC None Detected	Total Active CBD 22.754%	6,397.160
Total CBG 6.586%	1,804.700	Total CBN None Detected
Other Cannabinoids 0.173%	47.410mg	Total Cannabinoids 29.513%
		8,087.150

Terpenes Summary

Analyte	Result (mg/g)	(%)
alpha-Pinene	1.326	0.133%
trans-Caryophyllene	0.955	0.096%
Fenchone	0.744	0.074%
Fenchyl Alcohol	0.358	0.036%

Total Terpenes: 0.339%

Detailed Terpenes Analysis is on the following page

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Aixia Sun Lab Director/Principal Scientist
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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 = Delta6a10a-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% The tests and/or calibrations marked with an "*" are not ISO/IEC 17025:2017 accredited test results. Revised report- see statement of amendment above.

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Volume: 30 ml

Number of Units: 1
Net Weight per Unit: 27402.000 mg



Terpenes

Specimen Weight: 126.100 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Pinene	0.002	1.326	0.133	Eucalyptol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	0.955	0.096	Famesene	0.002	<LOQ	<LOQ
Fenchone	0.002	0.744	0.074	Gamma-Terpinene	0.002	<LOQ	<LOQ
Fenchyl Alcohol	0.002	0.358	0.036	Geraniol	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	Geranyl acetate	0.002	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	<LOQ	<LOQ	Guaiol	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ	<LOQ	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	<LOQ	<LOQ	Isobomeol	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Isopulegol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ	<LOQ	Linalool	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ	<LOQ	Ocimene	0.00033	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
beta-Pinene	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	Terpinolene	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	Total Terpeneol	0.00126	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ



Filtration and Foreign Material

Net Weight: 27.402 g

Passed

SOP13.020

(Visual/Microscope)

Dilution Factor: 1.000

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

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Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Volume: 30 ml

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Heavy Metals

Specimen Weight: 247.880 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 201

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ



Residual Solvents - FL (CBD)

Specimen Weight: 310.800 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 50.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	<LOQ
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	<LOQ	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					

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Pesticides
Specimen Weight: 259.800 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 5.770

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	300	<LOQ	Imazailil	2.4800E-1	30	100	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Metalaxyl	8.1000E-2	10	3000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Mevinphos	2.1500E+0	30	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorfenapyr	8.0000E-2	48	100	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Clofentazine	1.1900E-1	30	500	<LOQ	Paclbutrazol	6.5000E-2	30	100	<LOQ
Coumaphos	3.7700E+0	30	100	<LOQ	Parathion-methyl	1.7100E+0	48	100	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Pentachloronitrobenzene	1.3200E+0	30	200	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Permethrin	3.4300E-1	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Dimethomorph	5.8300E+0	30	3000	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spinetoram	8.0000E-2	30	3000	<LOQ
Fenhexamid	5.1000E-1	30	3000	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Flonicamid	5.1700E-1	30	2000	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fludioxonil	1.7400E+0	30	3000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Hexythiazox	4.9000E-2	30	2000	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ

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