



DEA No. RA0571996  
FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

## Compliance Test

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

Batch # 220420  
Batch Date: 2022-05-10  
Extracted From: Hemp

Test Reg State: Oregon

Production Facility: BIOTA Biosciences  
Production Date: 2022-05-10

Order # BIO220701-020001  
Order Date: 2022-07-01  
Sample # AADB199

Sampling Date: 2022-07-05  
Lab Batch Date: 2022-07-05  
Completion Date: 2022-07-11

Initial Gross Weight: 178.700 g

Volume: 100 ml



Product Image

Potency Tested

Terpenes Tested

Heavy Metals Passed

Pesticides Passed

Residual Solvents Passed

Filth and Foreign Passed

### Potency 10

Specimen Weight: 105.170 mg

Tested

SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	100.000	5.40E-5	0.002	95.370	9.537
CBG	10.000	2.48E-4	0.002	3.970	0.397
CBC	10.000	1.80E-5	0.002	3.740	0.374
Delta-9 THC	10.000	1.30E-5	0.002	2.920	0.292
CBDV	10.000	6.50E-5	0.002	1.310	0.131
CBN	10.000	1.40E-5	0.002	0.530	0.053
THCV	10.000	7.00E-6	0.002	0.210	0.021
THCA	10.000	3.20E-5	0.002	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.002	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.002	<LOQ	<LOQ

### Potency Summary

Total THC 0.292%	Total CBD 9.537%
Total CBG 0.397%	Total CBN 0.053%
Other Cannabinoids 0.526%	Total Cannabinoids 10.806%

### Terpenes Summary

Analyte	Result (mg/g)	(%)
alpha-Pinene	4.164	0.416%
trans-Caryophyllene	3.984	0.398%
Linalool	2.901	0.29%

**Total Terpenes: 1.104%**

Detailed Terpenes Analysis is on the following page

Xueli Gao  
Lab Toxicologist  
Ph.D., DABT

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



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Sampling Date: 2022-07-05  
Lab Batch Date: 2022-07-05  
Completion Date: 2022-07-11

Initial Gross Weight: 178.700 g

Volume: 100 ml

**Terpenes** **Tested**  
SOP13.045 (GC/GCMS)  
Specimen Weight: 71.010 mg

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Pinene	0.002	4.164	0.416	Fenchyl Alcohol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	3.984	0.398	(R)-(+)-Limonene	0.002	<LOQ	<LOQ
Linalool	0.002	2.901	0.290	beta-Myrcene	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	3-Carene	0.002	<LOQ	<LOQ
Nerol	0.002	<LOQ	<LOQ	alpha-Bisabolol	0.002	<LOQ	<LOQ
Geranyl acetate	0.002	<LOQ	<LOQ	alpha-Cedrene	0.002	<LOQ	<LOQ
Guaiol	0.002	<LOQ	<LOQ	alpha-Humulene	0.002	<LOQ	<LOQ
Hexahydrothymol	0.002	<LOQ	<LOQ	alpha-Phellandrene	0.002	<LOQ	<LOQ
Isoborneol	0.002	<LOQ	<LOQ	alpha-Terpinene	0.002	<LOQ	<LOQ
Isopulegol	0.002	<LOQ	<LOQ	beta-Pinene	0.002	<LOQ	<LOQ
Pulegone	0.002	<LOQ	<LOQ	Fenchone	0.002	<LOQ	<LOQ
Ocimene	0.000	<LOQ	<LOQ	Borneol	0.004	<LOQ	<LOQ
Gamma-Terpinene	0.002	<LOQ	<LOQ	Camphene	0.002	<LOQ	<LOQ
Sabinene	0.002	<LOQ	<LOQ	Camphors	0.006	<LOQ	<LOQ
Sabinene Hydrate	0.002	<LOQ	<LOQ	Caryophyllene oxide	0.002	<LOQ	<LOQ
Terpinolene	0.002	<LOQ	<LOQ	cis-Nerolidol	0.002	<LOQ	<LOQ
Total Terpeneol	0.001	<LOQ	<LOQ	Eucalyptol	0.002	<LOQ	<LOQ
trans-Nerolidol	0.002	<LOQ	<LOQ	Farnesene	0.002	<LOQ	<LOQ
Geraniol	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

**Total Terpenes: 1.104%**

*Xueli Gao*  
Xueli Gao Lab Toxicologist  
Ph.D., DABT

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



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Sample # AADB199

Sampling Date: 2022-07-05  
Lab Batch Date: 2022-07-05  
Completion Date: 2022-07-11

Initial Gross Weight: 178.700 g  
Volume: 100 ml

**Pesticides** **Passed**  
SOP13.007 (LCMS/GCMS)

Specimen Weight: 272.120 mg

Dilution Factor: 5.510

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	Imazalil	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	Metaxyl	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
Clofentezine	1.1900E-1	30	500	<LOQ	Pacloubutrazol	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
Fonicamid	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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Xueli Gao Lab Toxicologist  
Ph.D., DABT

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Aixia Sun Lab Director/Principal Scientist  
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Sample # AADB199

Sampling Date: 2022-07-05  
Lab Batch Date: 2022-07-05  
Completion Date: 2022-07-11

Initial Gross Weight: 178.700 g  
Volume: 100 ml

**Residual Solvents - FL (CBD)** **Passed**  
SOP13.039 (GCMS)

Specimen Weight: 244.200 mg

Dilution Factor: 500.000

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					

**Heavy Metals** **Passed**  
SOP13.048 (ICP-MS)

Specimen Weight: 248.870 mg

Dilution Factor: 200

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

**Filth and Foreign Material** **Passed**  
SOP13.020  
(Visual/Microscope)

Specimen Weight: N/A 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			

*Xueli Gao*  
Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

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