



Certificate of Analysis

R&D

Client Information:

Covert LLC
56 S Lexington Ave
Asheville, NC 28801

Batch # no #
Batch Date: 2023-02-23
Extracted From: Hemp

Test Reg State: Oregon

Order # SAY230223-120001
Order Date: 2023-02-23
Sample # AAED405

Sampling Date: 2023-02-24
Lab Batch Date: 2023-02-24
Orig. Completion Date: 2023-03-02

Initial Gross Weight: 35.971 g

Number of Units: 1
Net Weight per Unit: 2.000 g

Statement of Amendment: Updated Photo



Product Image



Potency Tested



Terpenes Tested



Heavy Metals Passed



2-3-Butanedione Passed



Mycotoxins Passed



Pesticides Passed



Residual Solvents Passed



Pathogenic Microbiology Passed



Listeria Monocytogenes Passed



Vitamin E Tested

Potency 10 + Potency 23 (LCUV) ***

Tested

SOP13.002 (LCUV)

Specimen Weight: 53.540 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	1000.000	2.60E-5	0.0015	655.6500	65.5650
Delta9-THCP	100.000	1.17E-5	0.0012	40.8200	4.0820
CBN	1000.000	1.40E-5	0.0015	7.8600	0.7860
Delta-8 THCV	10.000	4.00E-5	0.0015	7.5110	0.7511
CBC	1000.000	1.80E-5	0.0015	3.7100	0.3710
CBD A	1000.000	1.00E-5	0.0015	1.8600	0.1860
CBL	10.000	3.50E-5	0.0015	1.6730	0.1673
Delta8-THCP	10.000	3.75E-4	0.0015	0.4550	0.0455
CBG	1000.000	2.48E-4	0.0015	0.3100	0.0310
CBCA	10.000	1.07E-4	0.0015	0.2980	0.0298
CBD	1000.000	5.40E-5	0.0015	0.2900	0.0290
CBDV	1000.000	6.50E-5	0.0015	<LOQ	<LOQ
CBGA	1000.000	8.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	1000.000	1.30E-5	0.0015	<LOQ	<LOQ
THCA-A	1000.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	1000.000	7.00E-6	0.0015	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.0015	<LOQ	<LOQ
CBNA	10.000	9.50E-5	0.0015	<LOQ	<LOQ
CBT	10.000	2.00E-4	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	10.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-9 THC-O Acetate	10.000	7.70E-5	0.003	<LOQ	<LOQ
Exo-THC	10.000	2.30E-4	0.0015	<LOQ	<LOQ
THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD	1000.000			3.84	0.192
Total Active THC	1000.000			<LOQ	<LOQ

Potency Summary

Total Active THC None Detected	Total Active CBD 0.192%	3.84mg
Total CBG 0.031%	0.62mg	Total CBN 0.786%
Other Cannabinoids 71.008%	1420.16mg	Total Cannabinoids 72.0437%
		1440.874mg

Summary Results determined from two distinct Potency Tests - Potency 10 + Potency 23 (LCUV)

Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	46.302	4.63%
trans-Caryophyllene	2.535	0.253%
beta-Pinene	1.89	0.189%
Gamma-Terpinene	1.589	0.159%
alpha-Humulene	1.552	0.155%
beta-Myrcene	0.899	0.09%
Linalool	0.839	0.084%

Total Terpenes: 5.560%

Detailed Terpenes Analysis is on the following page

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



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Number of Units: 1
Net Weight per Unit: 2.000 g

Pesticides
Specimen Weight: 262.400 mg
Dilution Factor: 5.720

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
Acetaminiprid	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	Metalaxyl	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	Pacllobutrazol	6.5000E-2	30	100	<LOQ
Chlomequat 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
Clofentazine	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
Ethoprofos	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
Fonicamid	5.1700E-1	30	100	<LOQ					

Passed
SOP13.007
(LCMS/GCMS)

Pathogenic Microbiology SAE
(MicroArray)

Specimen Weight: 1018.030 mg
Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
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

2,3-butanedione(Diacetyl)
Specimen Weight: 12.600 mg
Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	.024	0.024	<LOQ

Listeria Monocytogenes
Specimen Weight: 1007.800 mg
Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Vitamin E (Tocopheryl Acetate)
Specimen Weight: 262.400 mg
Dilution Factor: 5.720

Analyte	LOD (ppb)	Result (ppb)
Tocopheryl acetate (vitamin E acetate)	.705	Not Detected

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

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Initial Gross Weight: 35.971 g

Number of Units: 1
Net Weight per Unit: 2.000 g

Terpenes
Specimen Weight: 53.540 mg
Dilution Factor: 20.000

Tested
SOP13.045 (GC/GCMS)

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.002	46.302	4.630	Eucalyptol	0.002	<LOQ	
trans-Caryophyllene	0.002	2.535	0.253	Famesene	0.002	<LOQ	
beta-Pinene	0.002	1.890	0.189	Fenchone	0.002	<LOQ	
Gamma-Terpinene	0.002	1.589	0.159	Fenchyl Alcohol	0.002	<LOQ	
alpha-Humulene	0.002	1.552	0.155	Geraniol	0.002	<LOQ	
beta-Myrcene	0.002	0.899	0.090	Geranyl acetate	0.002	<LOQ	
Linalool	0.002	0.839	0.084	Guaiol	0.002	<LOQ	
(+)-Cedrol	0.002	<LOQ		Hexahydrothymol	0.002	<LOQ	
3-Carene	0.002	<LOQ		Isobomeol	0.002	<LOQ	
alpha-Bisabolol	0.002	<LOQ		Isopulegol	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		Nerol	0.002	<LOQ	
alpha-Phellandrene	0.002	<LOQ		Ocimene	0.00033	<LOQ	
alpha-Pinene	0.002	<LOQ		Pulegone	0.002	<LOQ	
alpha-Terpinene	0.002	<LOQ		Sabinene	0.002	<LOQ	
Borneol	0.004	<LOQ		Sabinene Hydrate	0.002	<LOQ	
Camphene	0.002	<LOQ		Terpinolene	0.002	<LOQ	
Camphors	0.006	<LOQ		Total Terpeneol	0.00126	<LOQ	
Caryophyllene oxide	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	
cis-Nerolidol	0.002	<LOQ		Valencene	0.002	<LOQ	

Total Terpenes: 5.560%

Residual Solvents - FL (CBD)
Specimen Weight: 12.600 mg
Dilution Factor: 1.000

Passed
SOP13.039 (GCMS)

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	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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Mycotoxins
Specimen Weight: 262.400 mg

Dilution Factor: 5.720

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Heavy Metals
Specimen Weight: 250.600 mg

Dilution Factor: 199

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

Passed

SOP13.048 (ICP-MS)

Aixia Sun Lab Director/Principal Scientist
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