



PURE GOLD LIQUID 1000 MG CBD

This Certificate represents exact test data from Third Party Lab analysis, performed in accordance with the requirements of ISO/IEC 17025, and is reported in its entirety.

Cannabinoid Profile & Potency

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

ID	Weight %	Conc.
Δ9-THC	ND	ND
THCV	ND	ND
CBD	0.91 wt %	8.71 mg/mL
CBDV	ND	ND
CBG	ND	ND
CBC	ND	ND
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	0.91 wt%	8.71 mg/mL
Max THC	-	-
Max CBD	0.91 wt%	8.71 mg/mL

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

Microbiological Results

Tests Performed	Plated on	Results (CFU/G)	Detection Limit (CFU/G)	Method	Date Analyzed
Total Aerobic Plate Count	12/20/17	< 10	< 10	3M Petrifilm	12/22/17
Total Yeast and Mold	12/20/17	< 10	< 10	3M Petrifilm	12/22/17
Coliforms	NR				
E. coli	12/20/17	Negative	N/A	3M Petrifilm	12/22/17
S. aureus	NR				
Salmonella	NR				
P. aeruginosa	NR				
Enterobacteriaceae	NR				

CERTIFICATE OF ANALYSIS

CERTIFICATE ID: 25472



PURE CBD LIQUID 1000 MG CBD

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Cannabinoid Profile & Potency

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

ID	Weight %	Conc.
Δ9-THC	ND	ND
THCV	ND	ND
CBD	0.86 wt %	8.16 mg/mL
CBDV	ND	ND
CBG	ND	ND
CBC	ND	ND
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	0.86 wt %	8.16 mg/mL
Max THC	-	-
Max CBD	0.86 wt %	8.16 mg/mL

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

Microbiological Results

Tests Performed	Plated on	Results (CFU/G)	Detection Limit (CFU/G)	Method	Date Analyzed
Total Aerobic Plate Count	01/10/18	< 10	< 10	3M Petrifilm	01/12/18
Total Yeast and Mold	01/10/18	< 10	< 10	3M Petrifilm	01/12/18
Coliforms	NR				
E. coli	01/10/18	Negative	N/A	3M Petrifilm	01/12/18
S. aureus	NR				
Salmonella	NR				
P. aeruginosa	NR				
Enterobacteriaceae	NR				

CERTIFICATE OF ANALYSIS

CERTIFICATE ID: 26584



SALVE 50 MG CBD

This Certificate represents exact test data from Third Party Lab analysis, performed in accordance with the requirements of ISO/IEC 17025, and is reported in its entirety.

Cannabinoid Profile & Potency

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

ID	Weight %	Conc.
Δ9-THC	ND	ND
THCV	ND	ND
CBD	0.13 wt %	1.30 mg/g
CBDV	ND	ND
CBG	ND	ND
CBC	ND	ND
CBN	ND	ND
THCA	ND	ND
CBDA	0.07 wt %	0.65 mg/g
CBGA	ND	ND
Total	0.20 wt %	1.96 mg/g
Max THC	-	-
Max CBD	0.19 wt %	1.88 mg/g

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

Microbiological Results

Analyte	Result	Method	Test Date	Comment
TPC	<10cfu/gm	TM-01 (Modified USP61)	01/31/18	N/A
Yeast and Mold	<10cfu/gm	TM-01 (Modified USP61)	01/31/18	N/A

All Products were tested in accordance with the USP Standard for Total Plate Count and Enrichment. Additional guidance was referenced by CTFA Microbiological Guidelines.

CERTIFICATE OF ANALYSIS

CERTIFICATE ID: 26413



REVIVE PRO 1000 MG CBD

This Certificate represents exact test data from Third Party Lab analysis, performed in accordance with the requirements of ISO/IEC 17025, and is reported in its entirety.

Cannabinoid Profile & Potency

Test Date: 3/15/2018

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

ID	Weight %	Conc.
Δ9-THC	0.00 wt %	0.01 mg/mL
THCV	ND	ND
CBD	0.85 wt%	9.69 mg/mL
CBDV	ND	ND
CBG	ND	ND
CBC	0.01 wt %	0.07 mg/mL
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	.85 wt%	9.77 mg/mL
Max THC	0.00 wt%	-
Max CBD	.85 wt%	9.69 mg/mL

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC.

Elemental Analysis

Test Date: 3/1/2018

This test method was performed in accordance with the requirements, of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

Symbol	Metal	Conc. ¹	MDL	Limits ²	Status
Al	Aluminum	ND	5 ug/kg	-	
As	Arsenic	5 ug/kg	4 ug/kg	1500 ug/kg	PASS
Cd	Cadmium	1 ug/kg	1 ug/kg 500	1500 ug/kg	PASS
Ca	Calcium	3,001 ug/kg	ug/kg	-	
Cr	Chromium	ND	5 ug/kg	25000 ug/kg	PASS
Co	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	100000 ug/kg	PASS
Fe	Iron	1,899 ug/kg	5 ug/kg	-	
Pb	Lead	15 ug/kg	2 ug/kg	5000 ug/kg	PASS
Mg	Magnesium	34,105 ug/kg	500 ug/kg	-	
Mn	Manganese	ND	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	1500 ug/kg	PASS
Mo	Molybdenum	ND	5000 ug/kg	10000 ug/kg	PASS
Ni	Nickel	ND	500 ug/kg	1500 ug/kg	PASS
P	Phosphorus	ND	500 ug/kg	-	
K	Potassium	187,532 ug/kg	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	ND	5 ug/kg	-	
Sn	Tin	27,553 ug/kg	5000 ug/kg	-	
Zn	Zinc	618 ug/kg	5 ug/kg	-	

1) ND= None detected to the Method Detection Limit (MDL) 2) USP recommended limits for Elemental Analysis.

CERTIFICATE OF ANALYSIS

CERTIFICATE ID: 27563

REVIVE PRO 1000 MG CBD (CONTINUED..)
Microbiological Results
Test Date: 2/28/2018

Tests Performed	Results	Limits (cfu/g)	MDL	Status
Total Aerobic Bacterial Count	< 100	1000,000		PASS
Total Coliform Bacterial Count	< 100	1,000		PASS
Total Bile Tolerant Gram Negative Count	< 100	1,000		PASS
Total Yeast and Mold	< 100	10,000		PASS
E. coli	Negative	Non Detected		PASS
Salmonella	Negative	Non Detected		PASS
Total Aflatoxin	<MDL	<20 ppb	3 ppb	PASS
Total Ochratoxin	<MDL	<20 ppb	2ppb	PASS

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

PST: Pesticide Analysis
Test Date: 3/5/2018

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis.

Analyte	CAS	Result	Units	LLD	Limits (Ppb)	Status
Abamectin	71751-41-2	ND	Ppb	0.2	10	PASS
Azoxystrobin	131860-33-8	ND	Ppb	0.1	10	PASS
Bifenazate	149877-41-8	ND	Ppb	0.1	10	PASS
Bifenthrin	82657-04-3	ND	Ppb	0.2	10	PASS
Cyfluthrin	68359-37-5	ND	Ppb	0.5	10	*
Daminozide	1596-84-5	ND	Ppb	10	10	PASS
Dichlorvos	62-73-7	ND	Ppb	3	10	*
Etoxazole	153233-91-1	ND	Ppb	0.1	10	PASS
Fenoxycarb	72490-01-8	ND	Ppb	0.1	10	PASS
Imazalil	35554-44-0	ND	Ppb	0.1	10	PASS
Imidacloprid	138261-41-3	ND	Ppb	0.1	10	PASS
Myclobutanil	88671-89-0	ND	Ppb	0.1	10	PASS
Paclobutrazol	76738-62-0	ND	Ppb	0.1	10	PASS
Piperonyl Butoxide	51-03-6	ND	Ppb	0.1	10	PASS
Pyrethrin	8003-34-7	ND	Ppb	0.1	10	PASS
Spinosad	168316-95-8	ND	Ppb	0.1	10	PASS
Spiromesifen	283 594-90-1	ND	Ppb	0.1	10	PASS
Spirotetramat	203313-25-1	ND	Ppb	0.1	10	PASS
Trifloxystrobin	141517-21-7	ND	Ppb	0.1	10	PASS

Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with () indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

VC: Analysis of Volatile Organic Compounds
Test Date: 2/28/2018

Tests Performed	CAS	Amount ¹	Limit ²	Status
Butane	106-97-8	ND	5,000 ppm	PASS
Methanol	67-56-1	6 ppm	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000ppm	PASS
2,2-dimethyl-butane		ND	N/A	PASS
Acetone	67-64-1	ND	5,000 ppm	-
Isopropanol	67-63-0	5 ppm	5,000 ppm	PASS
Acetonitrile	75-05-8	ND	410 ppm	PASS
Hexane	110-54-3	ND	290 ppm	PASS
2-butanol	78-92-2	98 ppm	5,000 ppm	PASS
1,2-dichloroethane	107-06-2	ND	5 ppm	PASS
Heptane	142-82-5	ND	5,000 ppm	PASS

1) ND= None detected above 5 pp111. 2) In pp1n, based on USP recommended limits for residual solvents. adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

REVIVE PRO 1000 MG CBD (CONTINUED..)
TP: Terpenes Profile [WI-10-08]

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

Compound	ppm	Quantitative Profile	Compound	ppm	Quantitative Profile	
Myrcene			Terpineol			
Pulegone			Camphene			
Isopulegol			Fenchone			
Borneol			B-pinene			
Menthol			Eucalyptol			
Nerolidol-cis			A-terpinene			
G-terpinene			3-carene			
Nerolidol-trans			A-pinene			
A-bisabolol	4		Citral-1			
Linalool			Citral-2			
Linalyl Acetate			Limonene			
B-caryophyllene	36		Citronellol			
Caryophyllene Oxide	12		Geraniol			
Eugenol			Ocimene-2			
Guaiol			Ocimene-1			
Sabinene			A-phellandrene			
Humulene	11		Terpinolene			
P-cymene						
ppm	0.00	25.00	50.00	0.00	5.00	10.00

Total Terpene: <0.1 wt%

* Indicates qualitative calculation based on recorded peak areas.

CERTIFICATE OF ANALYSIS
CERTIFICATE ID: 27563

HEMPVAP® 100MG

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Cannabinoid Analysis

Total THC, CBD and Cannabinoid value(s) have been decarboxylated.

TOTAL THC: ND(ND)
TOTAL CBD: 107 mg/g (10.7%)
TOTAL CANNABINOIDS: 107 mg/g (10.7%)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ
D9THC	ND	0.500	1.000
THCa	ND	0.500	1.000
CBN	ND	0.500	1.000
CBDa	ND	0.500	1.000
THCv	ND	0.500	1.000
CBDv	1.18 mg/g (0.118%)	0.500	1.000

ANALYTE	RESULT	LOD	LLOQ
D8THC	ND	0.500	1.000
CBG	ND	0.500	1.000
CBD	ND	0.500	1.000
CBGa	ND	0.500	1.000
CBC	ND	0.500	1.000

ADDITIONAL INFORMATION

Method: SOP-TECH-001
Instrument: HPLC-DAD

CERTIFICATE OF ANALYSIS

CERTIFICATE ID: 46865