

Sample Name: Holy Grail OG 2 Batch# 0090

Client: wvapes
 Sample Type: Oil
 Strain: Unknown

Submitted: May 10, 2017
 Tested: May 10, 2017
 Expires: November 06, 2017
 Submitted for: HPLC, Chemres, Micro, Terpenes, Residual Solvent,

Cannabinoid Profiling

Analysis of major cannabinoids by advanced chromatography. [GC: SOP-010; HPLC: SOP-014]

	HPLC		GC	
	Percent	mg/g	Percent	mg/g
d9-THC	47.90	479.00	NA	NA
d8-THC	ND*	ND*	NA	NA
THCA	24.99	249.87	NA	NA
THCV	0.48	4.81	NA	NA
CBC	0.70	6.99	NA	NA
CBG	0.76	7.58	NA	NA
CBGA	1.29	12.89	NA	NA
CBN	0.69	6.93	NA	NA
CBD	0.08	0.78	NA	NA
CBDV	ND*	ND*	NA	NA
CBDA	ND*	ND*	NA	NA
Total	76.88	768.85	NA	NA

HPLC/DAD results are not moisture normalized.
 -66% Decarboxylated THC



Microbiological Screening

Petrifilm screening for microbiological contamination. [SOP-009]

	Count	Client Limit**	Status***
APC	0	100,000	Pass
Yeast & Mold	0	10,000	Pass
Coliform	0	100	Pass
E coli	0	10	Pass
Pseudomonas	0	0	Pass
Salmonella	NA	0	

*TNTC = Too Numerous To Count
 **Client Limit = The limit is self-selected and will be replaced by official CA state limits when they become available.
 ***Pass/Fail based on client limit selected.

Terpene Profiling

Analysis of terpenes. [SOP-012]

Percent		Percent		Percent	
b-Myrcene	ND*	Sabinene	ND*	Elemene	ND*
Nerol	0.03	b-Pinene	ND*	Phellandrene	ND*
Nerolidol	0.06	Camphene	ND*	Isopulegol	ND*
Ocimene	ND*	Eucalyptol	ND*	Linalool	ND*
a-Bisbolol	0.03	(-)-Fenchone	0.01	(+)-Fenchone	ND*
Farnasene	ND*	Fenchol	ND*	a-Caryophyllene	0.02
Valencene	ND*	Camphor	ND*	Guaiol	0.01
d3-Carene	ND*	Borneol	ND*	Bergamotene	ND*
d-Limonene	ND*	Pulegone	ND*	Terpineol	0.01
g-Terpinene	ND*	Cedrol	0.02	Terpinolene	ND*
a-Pinene	ND*	b-Caryophyllene	0.01	a-Terpinene	ND*
Total Terpenes		0.2 Percent			

*ND = Not Detected

Residual Solvent Analysis

Analysis of residual solvents. [SOP-011]

	PPM	Client Limit**		PPM	Client Limit**
Acetone	ND*	400	Isopropanol	ND*	400
Benzene	ND*	400	Methanol	ND*	400
Ethanol	ND*	400	nButane	ND*	400
Heptane	ND*	400	Pentane	ND*	400
Hexane	ND*	400	Propane	ND*	400
Isobutane	ND*	400	Toluene	ND*	400

Sum of Residual Solvents 0.0 PPM
 *ND = Not Detected
 **Client Limit is self-selected and will be replaced by official CA State limits when they become available

Status: Pass (Client Limit: 400 PPM)**

CW uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgement. However, CW makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of these data in any way. Further, CW makes no claims regarding the representativeness of the analyzed sample to the larger batch from which it was taken. As part of our strict confidentiality policy, CW can only discuss results with the original client of record. Comments? lab@cwanalytical.com



This sample was tested by CW Analytical Laboratories. Results are valid through the expiration date indicated.

Robert W Martin, PhD
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Chemical Residue Screening

Targeted analysis of chemical residues. [SOP-017]

	PPB	Client Limit*	Status***		PPB	Client Limit**	Status***
Abamectin	ND*	100	Pass	Myclobutanil	ND*	100	Pass
Acephate	ND*	100	Pass	Paclobutrazol	ND*	100	Pass
Acetamiprid	ND*	100	Pass	Permethrin	ND*	100	Pass
Azoxystrobin	ND*	100	Pass	Phosmet	ND*	100	Pass
Bifenazate	ND*	100	Pass	Piperonyl butoxide	ND*	100	Pass
Bifenthrin	ND*	100	Pass	Prallethrin	ND*	100	Pass
Boscalid	ND*	100	Pass	Propiconazole	ND*	100	Pass
Carbaryl	ND*	100	Pass	Propoxure	ND*	100	Pass
Carbofuran	ND*	100	Pass	Pyrethrin	ND*	100	Pass
Chlorantraniliprole	ND*	100	Pass	Pyridaben	ND*	100	Pass
Chlorpyrifos	ND*	100	Pass	Spinosyn A	ND*	100	Pass
Clofentezine	ND*	100	Pass	Spinosyn D	ND*	100	Pass
Daminozide	ND*	100	Pass	Spiromesifen	ND*	100	Pass
Dichlorvos	ND*	100	Pass	Spirotetramat	ND*	100	Pass
Diazinon	ND*	100	Pass	Spiroxamine	ND*	100	Pass
Dimethoate	ND*	100	Pass	Tebuconazole	ND*	100	Pass
Ethoprophos	ND*	100	Pass	Thiacloprid	ND*	100	Pass
Etofenprox	ND*	100	Pass	Thiamethoxam	ND*	100	Pass
Etoazole	ND*	100	Pass	Trifloxystrobin	ND*	100	Pass
Fenoxycarb	ND*	100	Pass	Acequinocyl	ND*	100	Pass
Fenpyroximate	ND*	100	Pass	Aflatoxin B1	ND*	100	Pass
Hexythiazox	ND*	100	Pass	Aflatoxin B2	ND*	100	Pass
Imazalil	ND*	100	Pass	Aflatoxin G1	ND*	100	Pass
Imidacloprid	ND*	100	Pass	Aflatoxin G2	ND*	100	Pass
Kresoxim-methyl	ND*	100	Pass	Cyfluthrin	ND*	100	Pass
Malathion	ND*	100	Pass	Flonicamid	ND*	100	Pass
Metalaxyl	ND*	100	Pass	Fludioxonil	ND*	100	Pass
Methiocarb	ND*	100	Pass	Cypermethrin	ND*	100	Pass

Sum of Chem. Residues 0 PPB

*ND = Not Detected

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***Pass/Fail based on client limit selected.

