Sample ID: CW12708S02

CERTIFICATE OF ANALYSIS

CW ANALYTICAL LABORATORIES | 510.545.6984

Sample Name: A161209
Client: darkheart
Sample Type: Oil
Strain: Unknown

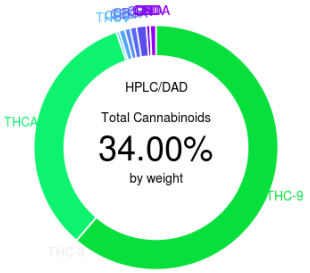
Submitted: December 12, 2016
Tested: December 12, 2016
Expires: March 12, 2017

Cannabinoid Profiling

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

	GC		HPLC	
	Percent	mg/g	Percent	mg/g
d9-THC	NA	NA	20.83	208.32
d8-THC	NA	NA	0.00	0.00
THCA	NA	NA	11.38	113.78
THCV	NA	NA	0.13	1.26
CBC	NA	NA	0.27	2.66
CBG	NA	NA	0.24	2.40
CBGA	NA	NA	0.29	2.86
CBN	NA	NA	0.44	4.40
CBD	NA	NA	0.17	1.67
CBDV	NA	NA	0.01	0.05
CBDA	NA	NA	0.26	2.58
Total	NA	NA	34.00	339.98

HPLC/DAD results are not moisture normalized.
~65% Decarboxylated THC



Microbiological Screening

Petriflim screening for microbiological contamination. [SOP-009]

	Count	Limit	Status
APC	NA		
Yeast & Mold	NA		
Coliform	NA		
E coli	NA		
Pseudomonas	NA		
Salmonella	NA		

*TNTC = Too Numerous To Count

Chemical Residue Screening

Targeted analysis of chemical residues. [SOP-017]

	PPM	Limit	Status		PPM	Limit	Status
BHC	NA			Endrin	NA		
Bifenezate	NA			Heptachlor	NA		
Bifenthrin	NA			Imidacloprid	NA		
Chlordane	NA			Methoxychlor	NA		
DDT	NA			Myclobutanil	NA		
Dieldrin	NA			Permethrin	NA		
Endosulfan	NA			Pyrethrin	NA		

*ND = Non-Detect

Terpene Profiling

Analysis of terpenes. [SOP-012]

	PPM		PPM		PPM
b-Myrcene	NA	Sabinene	NA	Elemene	NA
Nerol	NA	b-Pinene	NA	Phellandrene	NA
Nerolidol	NA	Camphene	NA	Isopulegol	NA
Ocimene	NA	Eucalyptol	NA	Linalool	NA
a-Bisbolol	NA	(-)-Fenchone	NA	(+)-Fenchone	NA
Farnasene	NA	Fenchol	NA	a-Caryophyllene	NA
Valencene	NA	Camphor	NA	Guaiol	NA
d3-Carene	NA	Borneol	NA	Bergamotene	NA
d-Limonene	NA	Pulegone	NA	Terpineol	NA
g-Terpinene	NA	Cedrol	NA	Terpinolene	NA
a-Pinene	NA	b-Caryophyllene	NA	a-Terpinene	NA
Total Terpenes		**0.0 PPM**			

*ND = Non-Detect

Residual Solvent Screening

Analysis of residual solvents. [SOP-011]

	Limit (PPM)	Status
Total Flammable Solvents	400	Pass

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