

Sample Name: RSO Northern Lights

Client: cancersolutionscalifornia

Sample Type: Oil

Strain: Unknown

Submitted: June 18, 2018

Tested: June 18, 2018

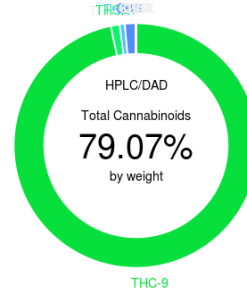
Expires: June 15, 2019

Submitted for: HPLC, Residual Solvent,

Profiling by Liquid Chromatography - Pass

(SOP-014) | Date Performed: 2018-06-19

Cannabinoid	Percent	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ¹	Status
d9-THC	76.46	764.56	5.00	1.67	-	Pass
d8-THC	ND ¹	ND ¹	5.00	1.67	-	Pass
THCA	0.91	9.13	5.00	1.67	-	Pass
THCV	0.55	5.47	5.00	1.67	-	Pass
CBG	1.15	11.49	5.00	1.67	-	Pass
CBGA	ND ¹	ND ¹	5.00	1.67	-	Pass
CBN	ND ¹	ND ¹	5.00	1.67	-	Pass
CBD	ND ¹	ND ¹	5.00	1.67	-	Pass
CBDV	ND ¹	ND ¹	5.00	1.67	-	Pass
CBDA	ND ¹	ND ¹	5.00	1.67	-	Pass
Total	79.07	790.65	NA	NA	-	Pass
Total THC	77.26	772.57	-	-	-	Pass
Total CBD	ND¹	ND¹	-	-	-	Pass



HPLC/DAD results are not moisture normalized.

-99% Decarboxylated THC

¹L.C. = Label Claim in Mg/g

Total THC = ((THCA*0.877)+ d9-THC)

Total CBD = ((CBDA*0.877)+ CBD)

Microbiological Screening -

Petrifilm screening for microbiological contamination. [SOP-009] | Date Performed:

	Analysis	Limit of Detection	Action Limits	Status
Shiga-Toxin E. Coli	NA	< 1 cfu/g	cfu/g	
Salmonella	NA	< 1 cfu/g	cfu/g	
Aspergillus	NA	< 1 cfu/g	cfu/g	
Pseudomonas	NA	< 1 cfu/g	cfu/g	
APC	NA	< 1 cfu/g	cfu/g	
E. Coli	NA	< 1 cfu/g	cfu/g	
Coliform	NA	< 1 cfu/g	cfu/g	
Yeast & Mold	NA	< 1 cfu/g	cfu/g	

*TNTC = Too Numerous To Count

¹ND = Not Detected

Residual Solvent Analysis - Pass

Analysis of residual solvents. [SOP-011] | Date Performed: 2018-06-20

Solvent	ug/g	Action Limit	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	ND ¹	0.00	1.00	0.33	Pass
Chloroform	ND ¹	0.00	1.00	0.33	Pass
1-2-Dichloroethane	ND ¹	0.00	1.00	0.33	Pass
Ethylene Oxide	ND ¹	0.00	1.00	0.33	Pass
Methylene Choride	ND ¹	0.00	1.00	0.33	Pass
Trichloroethylene	ND ¹	0.00	1.00	0.33	Pass
Acetone	ND ¹	3100.00	150.00	10.00	Pass
Acetonitrile	ND ¹	6.00	6.00	2.30	Pass
Ethanol	ND ¹	5000.00	250.00	2.00	Pass
Ethyl Acetate	ND ¹	5000.00	250.00	2.00	Pass
Ethyl ether	ND ¹	5000.00	250.00	2.00	Pass
Heptane	ND ¹	5000.00	250.00	2.00	Pass
Hexane	ND ¹	70.00	6.00	2.00	Pass
Isopropanol	ND ¹	320.00	50.00	10.00	Pass
Methanol	ND ¹	400.00	50.00	10.00	Pass
N-Butane	ND ¹	5000.00	50.00	6.50	Pass
Pentane	ND ¹	5000.00	50.00	1.00	Pass
Propane	ND ¹	5000.00	200.00	10.00	Pass
Toluene	ND ¹	30.00	3.00	1.00	Pass
Total Xylenes	ND ¹	10.00	3.00	1.00	Pass

¹ND = Not Detected

**Client Limit is self-selected and will be replaced by official CA State limits when they become available

Foreign Material Analysis -

Analysis to determine whether foreign material is present | Date Performed:

Analysis	Status



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Chemical Residue Screening -

Targeted analysis of chemical residues. [SOP-017] | Date Performed:

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status		ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status
Abamectin	NT					Fludioxonil	NT				
Acephate	NT					Hexythiazox	NT				
Acequinocyl	NT					Imazalil	NT				
Acetamiprid	NT					Imidacloprid	NT				
Aldicarb	NT					Kresoxim-methyl	NT				
Azoxystrobin	NT					Metalaxyl	NT				
Bifenazate	NT					Methiocarb	NT				
Bifenthrin	NT					Methomyl	NT				
Boscalid	NT					Mevinphos	NT				
Captan	NT					Myclobutanil	NT				
Carbaryl	NT					Naled	NT				
Carbofuran	NT					Oxamyl	NT				
Chlorantraniliprole	NT					Paclobutrazol	NT				
Chlordane	NT					Parathion methyl	NT				
Chlorfenapyr	NT					PCNB	NT				
Chlorpyrifos	NT					Permethrin	NT				
Clofentezine	NT					Phosmet	NT				
Coumaphos	NT					Piperonyl butoxide	NT				
Cyfluthrin	NT					Prallethrin	NT				
Cypermethrin	NT					Propiconazole	NT				
Daminozide	NT					Propoxure	NT				
Diazinon	NT					Pyrethrin	NT				
Dichlorvos	NT					Pyridaben	NT				
Dimethoate	NT					Spinetoram	NT				
Dimethomorph	NT					Spinosad	NT				
Ethoprophos	NT					Spiromesifen	NT				
Etofenprox	NT					Spirotetramat	NT				
Etoxazole	NT					Spiroxamine	NT				
Fenhexamid	NT					Tebuconazole	NT				
Fenoxycarb	NT					Thiacloprid	NT				
Fenpyroximate	NT					Thiamethoxam	NT				
Fipronil	NT					Trifloxystrobin	NT				
Flonicamid	NT										

*ND = Not Detected
NT = Not Tested

Terpene Profiling -

Analysis of terpenes. [SOP-012] | Date Performed:

PPM	mg/g	L	LO	L.C. ²	Status	PPM	mg/g	L	LO	L.C. ²	Status
		OO	D					OO	D		
		(mg/g)	(mg/g)					(mg/g)	(mg/g)		
b-Myrcene	NT					Camphor	NT				
Nerol	NT					Borneol	NT				
Nerolidol	NT					Pulegone	NT				
Ocimene	NT					Cedrol	NT				
a-Bisbolol	NT					b-Caryophyllene	NT				
Farnasene	NT					Elemene	NT				
Valencene	NT					Phellandrene	NT				
d3-Carene	NT					Isopulegol	NT				
d-Limonene	NT					Linalool	NT				
g-Terpinene	NT					(+)-Fenchone	NT				
a-Pinene	NT					a-Caryophyllene	NT				
Sabinene	NT					Guaiol	NT				
b-Pinene	NT					Bergamotene	NT				
Camphene	NT					Terpineol	NT				
Eucalyptol	NT					Terpinolene	NT				
(-)-Fenchone	NT					a-Terpinene	NT				
Fenchol	NT										

Total Terpenes 0.0 PPM

¹ND = Not Detected
²L.C. = Label Claim

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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