

Certificate of Analysis

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Customer Name: Eurofins Scientific Petaluma (ESAC)
Office: Petaluma, CA
Street Address: 1365 Redwood Way
City, State, Zip: Petaluma, California, 94954
Phone:

Date Reported: 02/01/2019
Date Completed: 01/24/2019
Date Received: 01/24/2019
Testing Method: HPLC-DAD

Sample Information		Cannabinoid Name	ID	Weight %	Conc. mg/g	Conc. mg/mL
Sample No:	119022536	Cannabichromenic Acid	CBCA	ND	ND	ND
Crop:	Hemp, Industrial	Cannabicyclol	CBL	<LOQ	<LOQ	<LOQ
Variety:	V1A24S	Cannabidiol	CBD	2.05	20.53	20.01
Lot:		Cannabidiolic Acid	CBDA	0.01	0.09	0.09
Seed Size:		Cannabidivarin	CBDV	0.02	0.23	0.22
Customer Tracking#:		Cannabidivarinic Acid	CBDVA	ND	ND	ND
Seeds Per Pound:		Cannabigerol	CBG	0.08	0.78	0.76
Batch:		Cannabigerolic Acid	CBGA	ND	ND	ND
LIMS:	740-2019-01220001	Cannabichromene	CBC	0.12	1.24	1.21
IL:		Cannabinol	CBN	0.01	0.07	0.07
		Cannabinolic Acid	CBNA	ND	ND	ND
Comments:	REVISED 01/30/2019. This report was revised based on an estimate of the density for the sample at 0.975 mg/mL.	Δ^9 -Tetrahydrocannabinol	Δ^9 -THC	0.08	0.76	0.74
	REVISED 02/01/2019. The Variety was updated to V1A24S from V1A23S.	Δ^8 -Tetrahydrocannabinol	Δ^8 -THC	ND	ND	ND
		Tetrahydrocannabinolic Acid A	THCA-A	ND	ND	ND
		Tetrahydrocannabivarin	THCV	ND	ND	ND
		Tetrahydrocannabivarinic Acid	THCVA	ND	ND	ND
		Total Cannabinoids		2.37	23.69	23.10
		Total THC*		0.08	0.76	0.74



*Total THC is calculated as the sum of Δ^9 -THC + Δ^8 -THC + (THCA-A * 0.877) + THCV + (THCV-A * 0.877).

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Joseph Zalusky

Joseph Zalusky
 Approved Chemist, Gas Chromatography
 American Oil Chemists' Society (AOCS)

Vital Plan

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Sample: 1901DEL0066.0247

Strain: Green Cherry
Lot#: ; Batch#: V1A24S; Batch Size: - grams

Sample Received: 01/29/2019; Report Created: 01/31/2019

Full Spectrum Hemp Oil (Peppermint) - 600mg

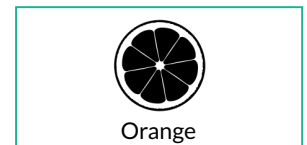
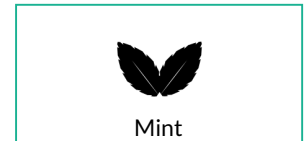
Ingestible, Tincture, Other
Lab Internal ID:



Terpenes

Analyte	LOQ PPM	Mass PPM	Mass %	
α-Pinene	10.000	89.000	0.009	<div style="width: 10%;"></div>
Camphene	10.000	<LOQ	<LOQ	
β-Myrcene	10.000	33.000	0.003	<div style="width: 5%;"></div>
β-Pinene	10.000	118.000	0.012	<div style="width: 15%;"></div>
δ-3-Carene	10.000	14.000	0.001	<div style="width: 2%;"></div>
α-Terpinene	10.000	20.000	0.002	<div style="width: 3%;"></div>
trans-Ocimene	10.000	40.000	0.004	<div style="width: 5%;"></div>
δ-Limonene	10.000	243.000	0.024	<div style="width: 25%;"></div>
p-Cymene	10.000	ND	ND	
cis-Ocimene	10.000	16.000	0.002	<div style="width: 3%;"></div>
Eucalyptol	10.000	471.000	0.047	<div style="width: 45%;"></div>
γ-Terpinene	10.000	29.000	0.003	<div style="width: 5%;"></div>
Terpinolene	10.000	14.000	0.001	<div style="width: 2%;"></div>
Linalool	10.000	40.000	0.004	<div style="width: 5%;"></div>
Isopulegol	10.000	250.000	0.025	<div style="width: 25%;"></div>
β-Caryophyllene	10.000	252.000	0.025	<div style="width: 25%;"></div>
α-Humulene	10.000	66.000	0.007	<div style="width: 10%;"></div>
cis-Nerolidol	10.000	34.000	0.003	<div style="width: 5%;"></div>
trans-Nerolidol	10.000	11.000	0.001	<div style="width: 2%;"></div>
Guaiol	10.000	17.000	0.002	<div style="width: 3%;"></div>
α-Bisabolol	10.000	15.000	0.002	<div style="width: 3%;"></div>

Primary Aromas



0.18%
1,793.000 PPM
Total Terpenes

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detected; NT = Not Tested; NR = Not Reported



James Clark

James Clark
Laboratory Director

