



Certificate of Analysis

Powered by Confident Cannabis
1 of 6

sofresh farms

Portland, OR 97209
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(503) 956-5266
Lic. #020-100010499D8

Sample: PD170928-009

Strain: Tangieland
Batch#: 7-19 B1; Batch Size: 2160 - grams
Sample Received: 09/28/2017; Report Created: 10/06/2017; Expires: 10/06/2018

Tangieland

Plant, Flower - Cured
Harvest Process Lot: ; METRC Batch: 1A4010300001E17000001493; METRC Sample: 1A4010300001E17000001531



19.05%
Total THC

ND
Total CBD

Cannabinoids

Potency-171002A-PS-HPLC2
10/02/2017

Pass

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.01	20.13	201.3
Δ9-THC	0.10	1.40	14.0
Δ8-THC	0.10	ND	ND
THCV	0.10	NR	NR
CBDa	0.10	<LOQ	<LOQ
CBD	0.10	ND	ND
CBDV	0.10	NR	NR
CBN	0.10	ND	ND
CBG	0.10	ND	ND
CBC	0.10	ND	ND
Total		21.53	215.3

Total THC = THCa * 0.877 + d9-THC
Total CBD = CBDa * 0.877 + CBD
Method: HPLC/UV. ND = Not Detected, measured value below LOQ; 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. CBN, CBG, CBC & d8-THC are not accredited analytes under ORELAP.



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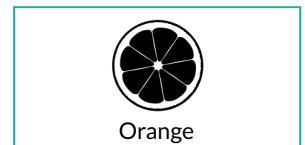
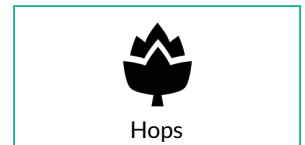


Terpenes

04 Oct 2017-TP-BB
10/04/2017

Analyte	LOQ	Mass	Mass
	PPM	PPM	mg/g
β-Myrcene	62.50	5969.48	5.97
α-Pinene	250.00	1323.35	1.32
β-Caryophyllene	125.38	842.39	0.84
δ-Limonene	125.90	573.72	0.57
β-Pinene	125.96	556.28	0.56
Linalool	125.90	468.04	0.47
α-Humulene	125.24	308.91	0.31
3-Carene	125.34	ND	ND
α-Bisabolol	125.66	ND	ND
α-Terpinene	125.30	ND	ND
Camphene	126.10	<LOQ	<LOQ
γ-Terpinene	126.14	ND	ND
Guaiol	125.16	ND	ND
Isopulegol	125.80	ND	ND
Ocimene	125.42	<LOQ	<LOQ
Terpinolene	126.14	<LOQ	<LOQ

Primary Aromas



10,042.17 PPM
Total Terpenes

Method: GC/MS Headspace. ND = Not Detected, measured value below LOQ; LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Terpenes are not an ORELAP Accredited Test.



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
Potency-171002A-PS-HPLC2		Cannabinoids	Blank

QC Notes

None

Method Blank				Matrix Blank			
Compound	Result	Blank Limits (%)	Notes	Compound	Result	Blank Limits (%)	Notes
CBDa	< LOQ	<0.1		CBDa	< LOQ	<0.1	
THCa	< LOQ	<0.1		THCa	< LOQ	<0.1	
CBD	< LOQ	<0.1		CBD	< LOQ	<0.1	
Δ9-THC	< LOQ	<0.1		Δ9-THC	< LOQ	<0.1	



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
Potency-171002A-PS-HPLC2		Cannabinoids	Lab Control Sample

QC Notes

None

Compound	CCV Result (ppm)	Expected Result (ppm)	% Recovery	Limits (%)	Notes
CBDa	132.16	125	105.728	90-110	
THCa	131.57	125	105.256	90-110	
CBD	130.83	125	104.664	90-110	
Δ9-THC	126.4	125	101.12	90-110	



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
Potency-171002A-PS-HPLC2		Cannabinoids	Sample Duplicate

QC Notes

THC-A outside working limits but within state regulation limits of $\leq 30\%$. Reran in batch "Potency-171003-PS-RR-HPLC2". Results depicted below.

Compound	Primary Sample Result (%)	Duplicate Sample Result (%)	% RSD	Limits (%)	Notes
CBDa	< LOQ	< LOQ	ERR	≤ 10	
THCa	19.85	17.55	8.697	≤ 10	
CBD	< LOQ	< LOQ	ERR	≤ 10	
$\Delta 9$ -THC	0.11	0.09	14.142	≤ 10	



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
Potency-171002A-PS-HPLC2		Cannabinoids	Spike

QC Notes

None

Compound	Post Spike Result (ppm)	Expected Result (ppm)	% Recovery	Limits (%)	Notes
CBDa	25.33	25	101.32	80-120	
THCa	26.11	25	104.44	80-120	
CBD	26.71	25	106.84	80-120	
Δ9-THC	24.98	25	99.92	80-120	
Compound	Pre Spike Result (ppm)	Expected Result (ppm)	% Recovery	Limits (%)	Notes
Δ8-THC	25.16	25	100.64	80-120	



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