



### Lemon Octane

Sample ID: G3J0314-02

Matrix: Industrial Hemp

Test ID: 5023449

Source ID:

Date Sampled: 10/20/23

Date Accepted: 10/20/23

**Fern Valley Farms**  
fernvalleycbd@gmail.com

### Results at a Glance

Total THC : 0.67 %

Total CBD : 18 %

Total CBG : 1.1 %

Percent Moisture : 7.42 % **PASS**

Total Terpenes : 1.269 % **PASS**



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LABORATORY**

Eric Wendt  
Chief Science Officer - 10/25/2023

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## Potency Analysis

Date/Time Extracted: 10/24/23 10:25

Analysis Method/SOP: 215

Batch Identification: 2343017

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.010	0.67	6.7	
Total CBD	0.009	18	180	
Total CBG	0.0009	1.1	11	
THCA	0.0005	0.72	7.2	
delta 9-THC	0.0005	0.034	0.34	
delta 8-THC	0.005	< LOQ	< LOQ	
THCV	0.005	< LOQ	< LOQ	
THCVA	0.002	< LOQ	< LOQ	
CBD	0.002	0.24	2.4	
CBDA	0.002	20	200	
CBDV	0.005	< LOQ	< LOQ	
CBDVA	0.002	0.040	0.4	
CBN	0.003	< LOQ	< LOQ	
CBG	0.0009	0.081	0.81	
CBGA	0.0009	1.1	11	
CBC	0.010	0.12	1.2	

## Moisture

Date/Time Extracted: 10/23/23 14:40

Analysis Method/SOP: 103

Moisture: 7.42 %

Action Level: 15%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA \* 0.877)

Total CBD = CBD + (CBDA \* 0.877)

Total CBG = CBG + (CBGA \* 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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### Terpene Analysis by GCMS

Date/Time Extracted: 10/24/23 10:25

Analysis Method/SOP: 204

Date/Time Analyzed: 10/24/23 20:53

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.001	0.003	mg/g	(+)-Borneol	< LOQ	0.001	0.003	mg/g
3-Carene	< LOQ	0.001	0.003	mg/g	alpha-Bisabolol	1.1	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	0.99	0.001	0.003	mg/g
Alpha-Phellandrene	< LOQ	0.001	0.003	mg/g	alpha-Pinene	0.08	0.001	0.003	mg/g
alpha-Terpinene	< LOQ	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.11	0.001	0.003	mg/g	beta-Caryophyllene	3.06	0.001	0.003	mg/g
beta-Myrcene	3.38	0.001	0.003	mg/g	beta-Pinene	0.16	0.001	0.003	mg/g
Camphene	< LOQ	0.001	0.003	mg/g	Camphor	< LOQ	0.001	0.003	mg/g
Carvacrol	< LOQ	0.001	0.003	mg/g	Carvone	< LOQ	0.001	0.003	mg/g
Caryophyllene Oxide	< LOQ	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	0.26	0.001	0.003	mg/g	Cis-beta-Ocimene	< LOQ	0.001	0.003	mg/g
cis-Nerolidol	0.25	0.001	0.003	mg/g	Citral	< LOQ	0.001	0.003	mg/g
Citronellol	< LOQ	0.001	0.003	mg/g	Endo-fenchyl alcohol	0.14	0.001	0.003	mg/g
Eucalyptol	< LOQ	0.001	0.003	mg/g	Farnesol 1	< LOQ	0.001	0.003	mg/g
Farnesol 2	0.17	0.001	0.003	mg/g	gamma-Terpinene	< LOQ	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	< LOQ	0.001	0.003	mg/g
Guaiol	0.9	0.001	0.003	mg/g	Isoborneol	< LOQ	0.001	0.003	mg/g
Isobornyl Acetate	< LOQ	0.001	0.003	mg/g	Isopulegol	< LOQ	0.001	0.003	mg/g
Limonene	0.99	0.001	0.003	mg/g	Linalool	0.23	0.001	0.003	mg/g
Menthol	< LOQ	0.001	0.003	mg/g	Menthone	< LOQ	0.001	0.003	mg/g
Nootkatone	< LOQ	0.001	0.003	mg/g	Octyl Acetate	< LOQ	0.001	0.003	mg/g
p-Cymene	< LOQ	0.001	0.003	mg/g	Phytane	< LOQ	0.001	0.003	mg/g
Piperitone	< LOQ	0.001	0.003	mg/g	Pulegone	< LOQ	0.001	0.003	mg/g
Sabinene	< LOQ	0.001	0.003	mg/g	Sabinene hydrate	< LOQ	0.001	0.003	mg/g
Safranal	< LOQ	0.001	0.003	mg/g	Squalene	< LOQ	0.001	0.003	mg/g
Terpinen-4-ol	0.07	0.001	0.003	mg/g	Terpinolene	< LOQ	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	0.26	0.001	0.003	mg/g
trans-beta-Ocimene	< LOQ	0.001	0.003	mg/g	trans-Nerolidol	0.35	0.001	0.003	mg/g
Valencene	0.28	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
<b>Total Terpenes</b>	<b>12.69</b>	<b>0.001</b>	<b>0.003</b>	<b>mg/g</b>					

ND - Compound not detected, <LOQ - Results below the Limit of Quantitation  
Terpenes are not Accredited by ORELAP to TNI 2016 and ISO 17025



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LABORATORY**

Eric Wendt  
Chief Science Officer - 10/25/2023



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Test ID: 5023449

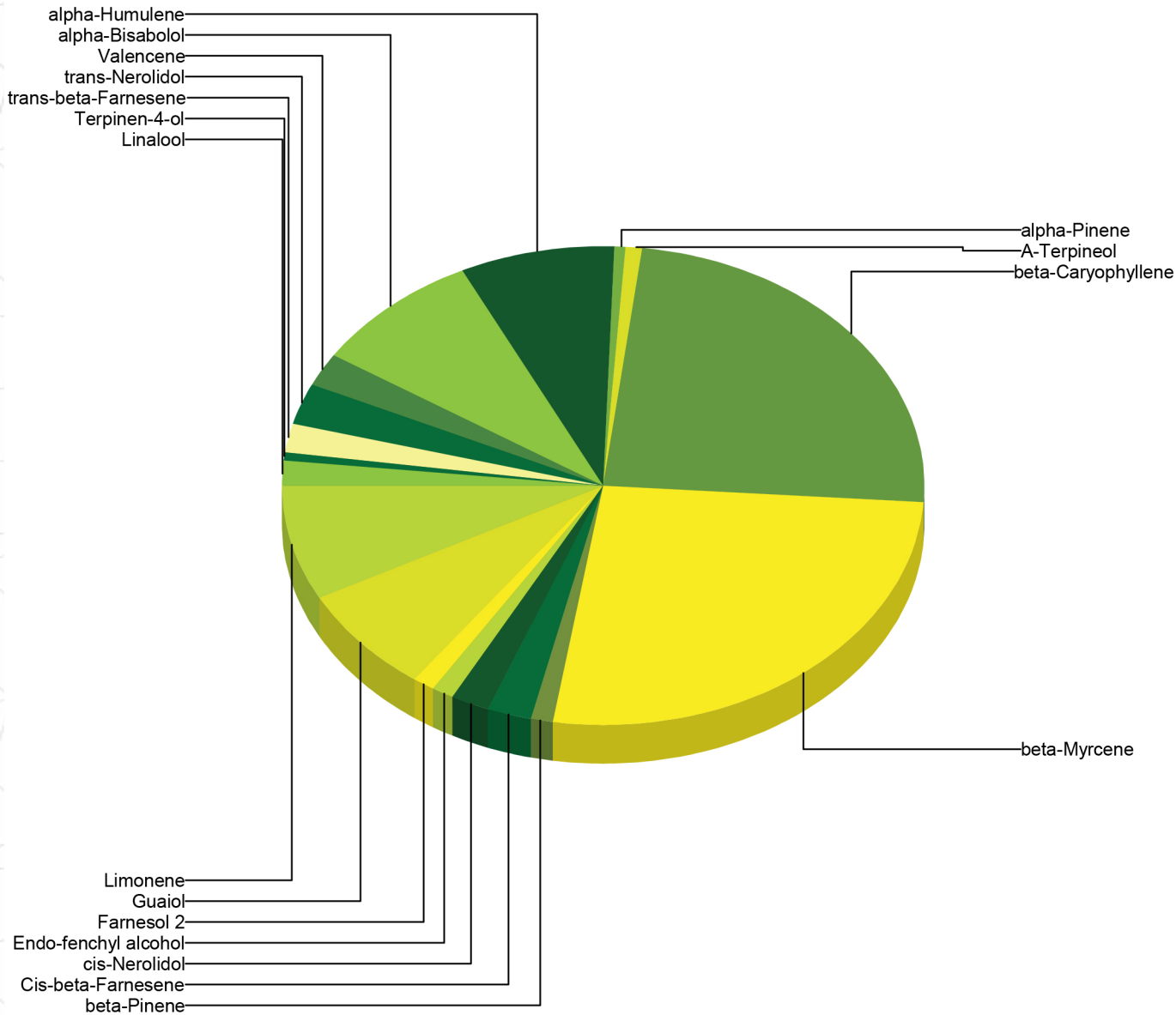
Source ID:

Date Sampled: 10/20/23

Date Accepted: 10/20/23

**Fern Valley Farms**  
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### Terpene Profile



### Percentage of Total Terpenes Identified



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Chief Science Officer - 10/25/2023





### Quality Control Potency

Batch: 2343017 - 215-Hemp

Blank(2343017-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		10/24/23 10:25	10/25/23 01:11	
delta 9-THC	< LOQ	0.0005	%		10/24/23 10:25	10/25/23 01:11	
delta 8-THC	< LOQ	0.004	%		10/24/23 10:25	10/25/23 01:11	
THCV	< LOQ	0.005	%		10/24/23 10:25	10/25/23 01:11	
THCVA	< LOQ	0.002	%		10/24/23 10:25	10/25/23 01:11	
CBD	< LOQ	0.0005	%		10/24/23 10:25	10/25/23 01:11	
CBDA	< LOQ	0.0005	%		10/24/23 10:25	10/25/23 01:11	
CBDV	< LOQ	0.005	%		10/24/23 10:25	10/25/23 01:11	
CBDVA	< LOQ	0.002	%		10/24/23 10:25	10/25/23 01:11	
CBN	< LOQ	0.003	%		10/24/23 10:25	10/25/23 01:11	
CBG	< LOQ	0.0008	%		10/24/23 10:25	10/25/23 01:11	
CBGA	< LOQ	0.0008	%		10/24/23 10:25	10/25/23 01:11	
CBC	< LOQ	0.009	%		10/24/23 10:25	10/25/23 01:11	

Reference(2343017-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	99.9	0.0005	%	90-110	10/24/23 10:25	10/25/23 01:34	
delta 9-THC	99.9	0.0005	%	90-110	10/24/23 10:25	10/25/23 01:34	
delta 8-THC	108	0.004	%	90-110	10/24/23 10:25	10/25/23 01:34	
CBD	109	0.0005	%	90-110	10/24/23 10:25	10/25/23 01:34	
CBDA	102	0.0005	%	90-110	10/24/23 10:25	10/25/23 01:34	

### Moisture Content

Batch: 2343010 - 103

Blank(2343010-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.400		%		10/23/23 14:40	10/23/23 14:40	

Blank(2343010-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.280		%		10/23/23 14:40	10/23/23 14:40	

Reference(2343010-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	90.1		%	80-120	10/23/23 14:40	10/23/23 14:40	

Reference(2343010-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	93.7		%	80-120	10/23/23 14:40	10/23/23 14:40	

Batch: 2343017 - 215-Hemp

Blank(2343017-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



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### Quality Control Terpene Analysis (Continued)

Batch: 2343017 - 215-Hemp (Continued)

Blank(2343017-BLK2)								Notes
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed		
alpha-Bisabolol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Camphene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Camphor	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
3-Carene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
beta-Caryophyllene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Caryophyllene Oxide	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
alpha-Cedrene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Cedrol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Endo-fenchyl alcohol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Eucalyptol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Geraniol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Geranyl acetate	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Guaiol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
alpha-Humulene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Isoborneol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Isopulegol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Limonene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Linalool	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
beta-Myrcene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
trans-Nerolidol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
alpha-Pinene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
beta-Pinene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Pulegone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Sabinene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Sabinene hydrate	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
gamma-Terpinene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
alpha-Terpinene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Terpinolene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Valencene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Verbenone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
trans-beta-Farnesene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
A-Terpineol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
cis-Nerolidol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Thymol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Terpinen-4-ol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Squalene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Safranal	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		
Piperitone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58		



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### Quality Control Terpene Analysis (Continued)

Batch: 2343017 - 215-Hemp (Continued)

Blank(2343017-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
p-Cymene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Octyl Acetate	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Nootkatone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Menthone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Menthol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Isobornyl Acetate	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Farnesol 1	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Carvone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
alpha-Thujone	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Alpha-Phellandrene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
(+)-Borneol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
(-)-Borneol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Carvacrol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
trans-beta-Ocimene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Cis-beta-Ocimene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Citral	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Citronellol	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Farnesol 2	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	
Cis-beta-Farnesene	< LOQ	0.00025	%		10/24/23 10:25	10/24/23 19:58	

Reference(2343017-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
beta-Caryophyllene	86.7	0.00025	%	70-130	10/24/23 10:25	10/24/23 20:17	
alpha-Humulene	82.5	0.00025	%	70-130	10/24/23 10:25	10/24/23 20:17	
Limonene	77.1	0.00025	%	70-130	10/24/23 10:25	10/24/23 20:17	
beta-Myrcene	71.9	0.00025	%	70-130	10/24/23 10:25	10/24/23 20:17	



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### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 and following Sampling Plan FN117. Quality Control samples were tested as received.  
Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP
- U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.  
Internal Standard concentration outside control limit due to matrix interference



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