



Sour Chem

Sample ID: G3J0314-03

Matrix: Industrial Hemp

Test ID: 5023450

Source ID:

Date Sampled: 10/20/23

Date Accepted: 10/20/23

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 0.56 %

Total CBD : 15 %

Total CBG : 0.038 %

Percent Moisture : 9.01 % **PASS**

Total Terpenes : 0.963 % **PASS**



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	0.56	5.6		
Total CBD	0.009	15	150		
Total CBG	0.0009	0.038	0.38		
THCA	0.0005	0.59	5.9		
delta 9-THC	0.0005	0.039	0.39		
delta 8-THC	0.005	< LOQ	< LOQ		
THCV	0.006	< LOQ	< LOQ		
THCVA	0.002	< LOQ	< LOQ		
CBD	0.002	0.29	2.9		
CBDA	0.002	17	170		
CBDV	0.005	< LOQ	< LOQ		
CBDVA	0.002	0.060	0.6		
CBN	0.003	< LOQ	< LOQ		
CBG	0.0009	0.038	0.38		
CBGA	0.0009	< LOQ	< LOQ		
CBC	0.010	0.088	0.88		

Moisture

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

Analysis Method/SOP: 103

Moisture: 9.01 %

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



ISO 17025
ACCREDITED
LABORATORY

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Chief Science Officer - 10/25/2023

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Source ID:

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Date Accepted: 10/20/23

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Analysis by GCMS

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

Analysis Method/SOP: 204

Date/Time Analyzed: 10/24/23 21:12

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	0.1	0.001	0.003	mg/g	alpha-Bisabolol	0.38	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	0.64	0.001	0.003	mg/g
Alpha-Phellandrene	0.11	0.001	0.003	mg/g	alpha-Pinene	0.17	0.001	0.003	mg/g
alpha-Terpinene	0.12	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.17	0.001	0.003	mg/g	beta-Caryophyllene	1.65	0.001	0.003	mg/g
beta-Myrcene	0.65	0.001	0.003	mg/g	beta-Pinene	0.28	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	0.24	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	0.06	0.001	0.003	mg/g	Cis-beta-Ocimene	0.2	0.001	0.003	mg/g
cis-Nerolidol	0.18	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	0.09	0.001	0.003	mg/g
Eucalyptol	0.05	0.001	0.003	mg/g	Farnesol 1	< LOQ	0.001	0.003	mg/g
Farnesol 2	0.15	0.001	0.003	mg/g	gamma-Terpinene	0.12	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	< LOQ	0.001	0.003	mg/g
Guaiol	1.01	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	0.29	0.001	0.003	mg/g	Linalool	0.13	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	0.11	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	0.11	0.001	0.003	mg/g	Terpinolene	1.97	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	< LOQ	0.001	0.003	mg/g
trans-beta-Ocimene	< LOQ	0.001	0.003	mg/g	trans-Nerolidol	0.48	0.001	0.003	mg/g
Valencene	0.22	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
Total Terpenes	9.63	0.001	0.003	mg/g					

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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Chief Science Officer - 10/25/2023

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Test ID: 5023450

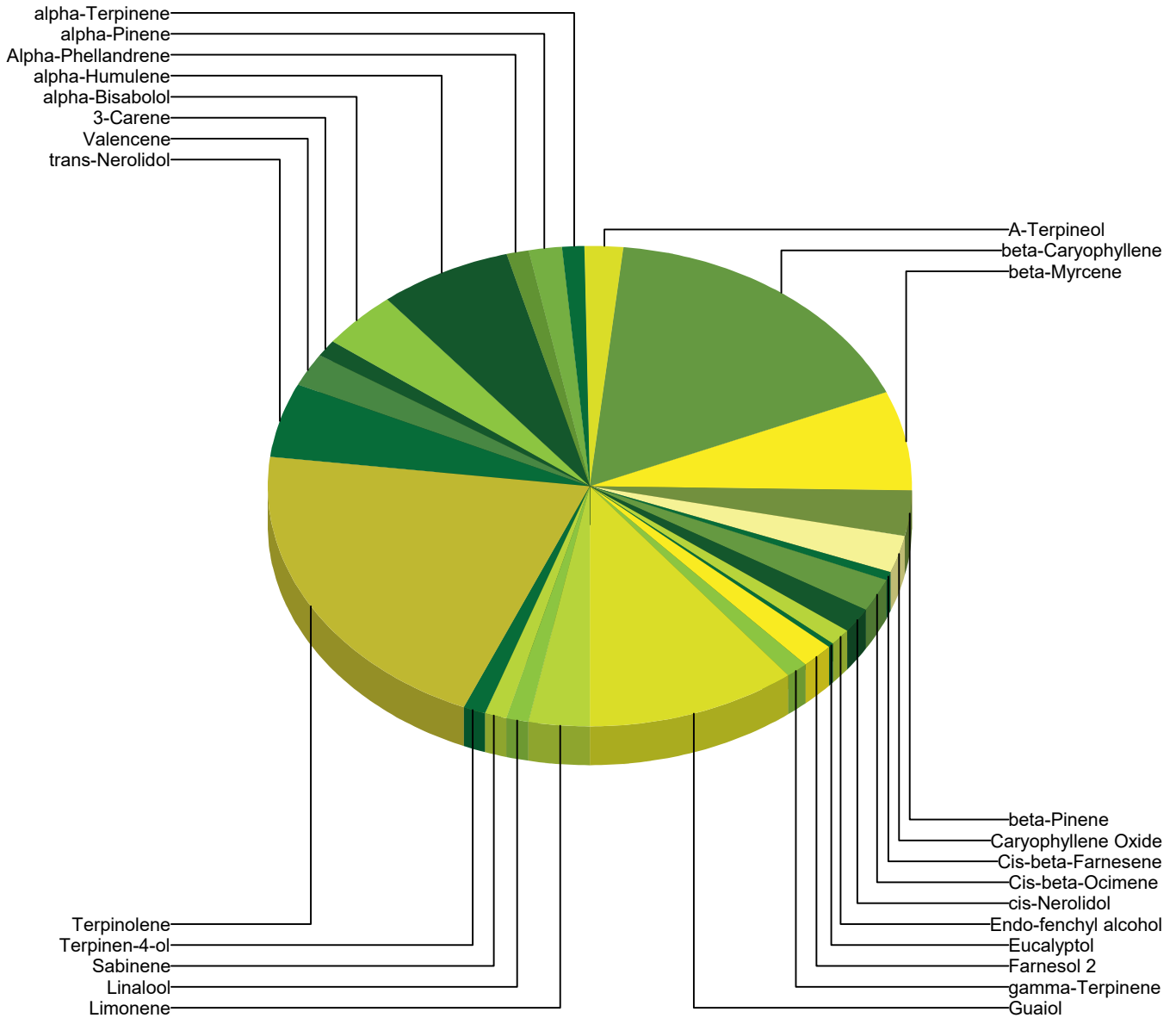
Source ID:

Date Sampled: 10/20/23

Date Accepted: 10/20/23

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



Eric Wendt
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)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
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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