



D8 CBG

Sample ID: G4J0319-02

Matrix: Industrial Hemp

Test ID: 5027292

Source ID:

Date Sampled: 10/28/24

Date Accepted: 10/28/24

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 0.014 %

Total CBD : 0.14 %

Total CBG : 6.4 %

delta 8-THC : 22 % dry PASS

Percent Moisture : 4.62 % PASS

Total Terpenes : 0.673 % PASS



Nolan Mundie
Lab Director - 11/1/2024



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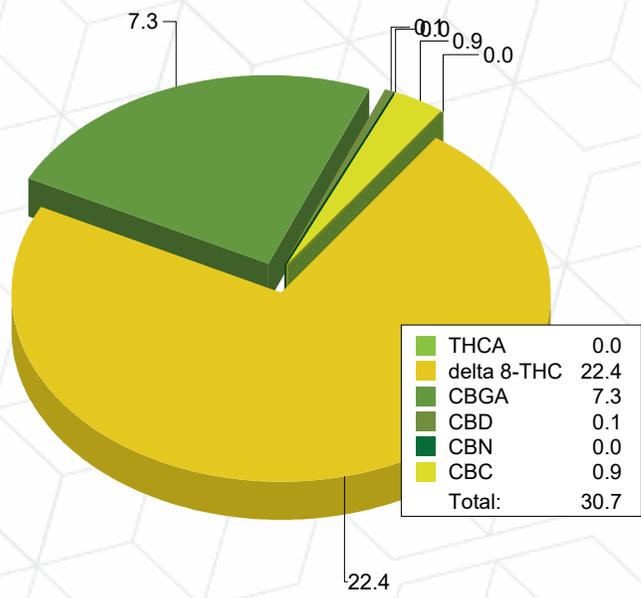
Potency Analysis

Date/Time Extracted: 10/31/24 08:55

Analysis Method/SOP: 215

Batch Identification: 2444037

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile	
Total THC	0.010	0.014	0.14		
Total CBD	0.002	0.14	1.4		
Total CBG	0.003	6.4	64		
THCA	0.0005	0.016	0.16		
delta 9-THC	0.0005	< LOQ	< LOQ		
delta 8-THC	0.019	22	220		
THCV	0.005	< LOQ	< LOQ		
THCVA	0.002	< LOQ	< LOQ		
CBD	0.0005	0.14	1.4		
CBDA	0.0005	< LOQ	< LOQ		
CBDV	0.005	< LOQ	< LOQ		
CBDVA	0.002	< LOQ	< LOQ		
CBN	0.003	0.028	0.28		
CBG	0.003	< LOQ	< LOQ		
CBGA	0.003	7.3	73		
CBC	0.009	0.90	9		



Moisture

Date/Time Extracted: 10/30/24 12:56

Analysis Method/SOP: 103

Moisture: 4.62 %

Action Level: 90%

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

Nolan Mundie
Lab Director - 11/1/2024

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Date Accepted: 10/28/24

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fernvalleycbd@gmail.com

Terpene Analysis by GCMS

Date/Time Extracted: 10/31/24 08:55

Analysis Method/SOP: 204

Date/Time Analyzed: 11/01/24 00:39

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.002	0.005	mg/g	(+)-Borneol	< LOQ	0.002	0.005	mg/g
3-Carene	< LOQ	0.002	0.005	mg/g	alpha-Bisabolol	0.95	0.002	0.005	mg/g
alpha-Cedrene	< LOQ	0.002	0.005	mg/g	alpha-Humulene	0.55	0.002	0.005	mg/g
Alpha-Phellandrene	< LOQ	0.002	0.005	mg/g	alpha-Pinene	< LOQ	0.002	0.005	mg/g
alpha-Terpinene	< LOQ	0.002	0.005	mg/g	alpha-Thujone	< LOQ	0.002	0.005	mg/g
A-Terpineol	< LOQ	0.002	0.005	mg/g	beta-Caryophyllene	1.77	0.002	0.005	mg/g
beta-Myrcene	1	0.002	0.005	mg/g	beta-Pinene	0.11	0.002	0.005	mg/g
Camphene	< LOQ	0.002	0.005	mg/g	Camphor	< LOQ	0.002	0.005	mg/g
Carvacrol	< LOQ	0.002	0.005	mg/g	Carvone	< LOQ	0.002	0.005	mg/g
Caryophyllene Oxide	0.12	0.002	0.005	mg/g	Cedrol	< LOQ	0.002	0.005	mg/g
Cis-beta-Farnesene	< LOQ	0.002	0.005	mg/g	Cis-beta-Ocimene	< LOQ	0.002	0.005	mg/g
cis-Nerolidol	< LOQ	0.002	0.005	mg/g	Citral	< LOQ	0.002	0.005	mg/g
Citronellol	< LOQ	0.002	0.005	mg/g	Endo-fenchyl alcohol	0.12	0.002	0.005	mg/g
Eucalyptol	< LOQ	0.002	0.005	mg/g	Farnesol 1	< LOQ	0.002	0.005	mg/g
Farnesol 2	< LOQ	0.002	0.005	mg/g	gamma-Terpinene	< LOQ	0.002	0.005	mg/g
Geraniol	< LOQ	0.002	0.005	mg/g	Geranyl acetate	< LOQ	0.002	0.005	mg/g
Guaiol	0.71	0.002	0.005	mg/g	Isoborneol	< LOQ	0.002	0.005	mg/g
Isobornyl Acetate	< LOQ	0.002	0.005	mg/g	Isopulegol	< LOQ	0.002	0.005	mg/g
Limonene	0.78	0.002	0.005	mg/g	Linalool	0.29	0.002	0.005	mg/g
Menthol	< LOQ	0.002	0.005	mg/g	Menthone	< LOQ	0.002	0.005	mg/g
Nootkatone	< LOQ	0.002	0.005	mg/g	Octyl Acetate	< LOQ	0.002	0.005	mg/g
p-Cymene	< LOQ	0.002	0.005	mg/g	Phytane	< LOQ	0.002	0.005	mg/g
Piperitone	< LOQ	0.002	0.005	mg/g	Pulegone	< LOQ	0.002	0.005	mg/g
Sabinene	< LOQ	0.002	0.005	mg/g	Sabinene hydrate	< LOQ	0.002	0.005	mg/g
Safranal	< LOQ	0.002	0.005	mg/g	Squalene	< LOQ	0.002	0.005	mg/g
Terpinen-4-ol	< LOQ	0.002	0.005	mg/g	Terpinolene	< LOQ	0.002	0.005	mg/g
Thymol	< LOQ	0.002	0.005	mg/g	trans-beta-Farnesene	< LOQ	0.002	0.005	mg/g
trans-beta-Ocimene	< LOQ	0.002	0.005	mg/g	trans-Nerolidol	0.31	0.002	0.005	mg/g
Valencene	< LOQ	0.002	0.005	mg/g	Verbenone	< LOQ	0.002	0.005	mg/g
Total Terpenes	6.73	0.002	0.005	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



Nolan Mundie
Lab Director - 11/1/2024

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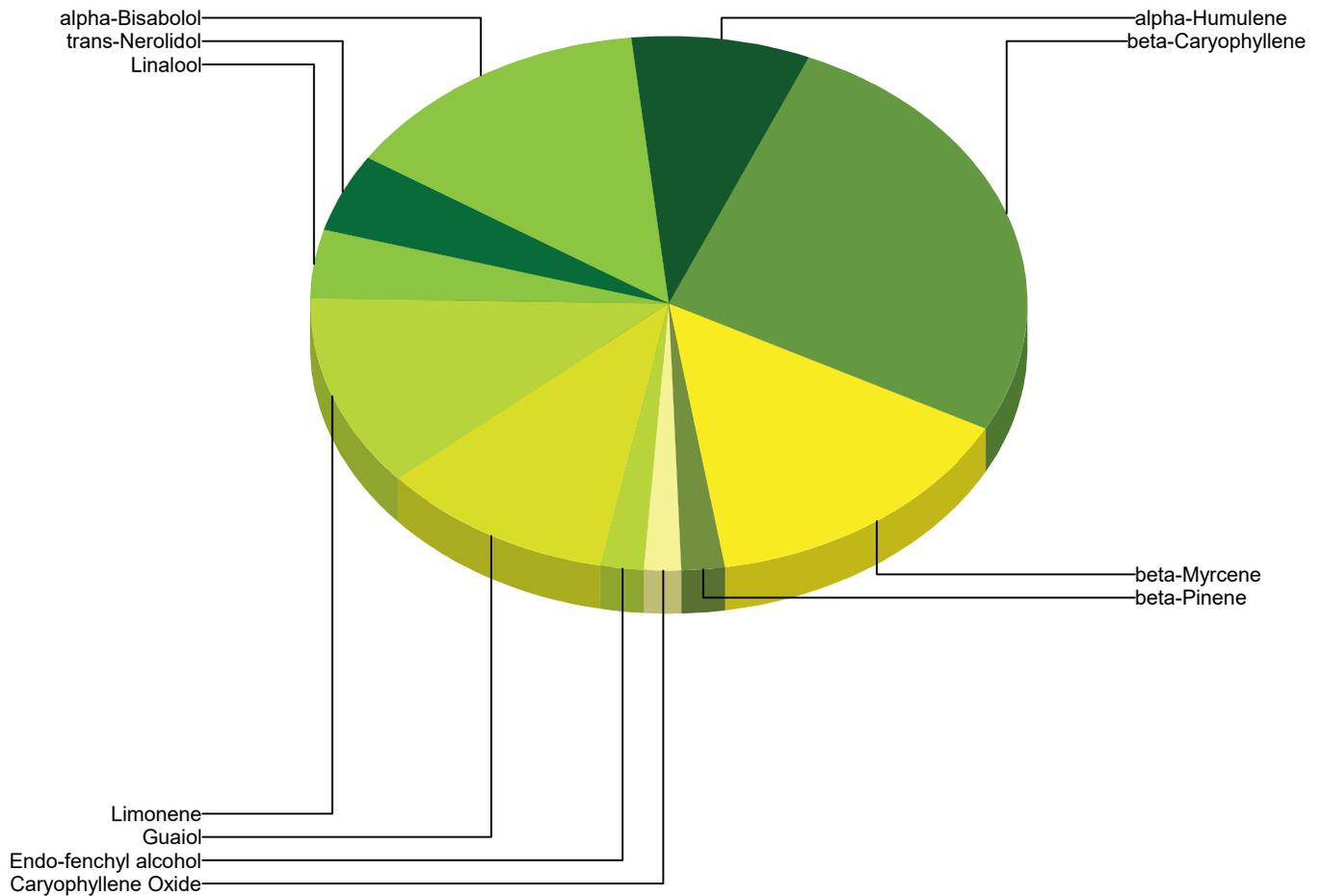
Source ID:

Date Sampled: 10/28/24

Date Accepted: 10/28/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



Nolan Mundie
Lab Director - 11/1/2024



Quality Control Potency

Batch: 2444037 - 215-Hemp

Blank(2444037-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		10/31/24 08:55	11/01/24 06:13	
delta 9-THC	< LOQ	0.0005	%		10/31/24 08:55	11/01/24 06:13	
delta 8-THC	< LOQ	0.004	%		10/31/24 08:55	11/01/24 06:13	
THCV	< LOQ	0.005	%		10/31/24 08:55	11/01/24 06:13	
THCVA	< LOQ	0.002	%		10/31/24 08:55	11/01/24 06:13	
CBD	< LOQ	0.0005	%		10/31/24 08:55	11/01/24 06:13	
CBDA	< LOQ	0.0005	%		10/31/24 08:55	11/01/24 06:13	
CBDV	< LOQ	0.005	%		10/31/24 08:55	11/01/24 06:13	
CBDVA	< LOQ	0.002	%		10/31/24 08:55	11/01/24 06:13	
CBN	< LOQ	0.003	%		10/31/24 08:55	11/01/24 06:13	
CBG	< LOQ	0.0008	%		10/31/24 08:55	11/01/24 06:13	
CBGA	< LOQ	0.0008	%		10/31/24 08:55	11/01/24 06:13	
CBC	< LOQ	0.009	%		10/31/24 08:55	11/01/24 06:13	

Reference(2444037-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	106	0.0005	%	90-110	10/31/24 08:55	11/01/24 06:36	
delta 9-THC	97.2	0.0005	%	90-110	10/31/24 08:55	11/01/24 06:36	
delta 8-THC	94.5	0.004	%	90-110	10/31/24 08:55	11/01/24 06:36	
CBD	100	0.0005	%	90-110	10/31/24 08:55	11/01/24 06:36	
CBDA	108	0.0005	%	90-110	10/31/24 08:55	11/01/24 06:36	

Moisture Content

Batch: 2444027 - 103

Blank(2444027-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.160		%		10/30/24 12:56	10/30/24 12:56	

Blank(2444027-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.120		%		10/30/24 12:56	10/30/24 12:56	

Reference(2444027-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	107		%	80-120	10/30/24 12:56	10/30/24 12:56	

Reference(2444027-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	95.7		%	80-120	10/30/24 12:56	10/30/24 12:56	

Batch: 2444037 - 215-Hemp

Blank(2444037-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



Nolan Mundie
Lab Director - 11/1/2024



Quality Control Terpene Analysis (Continued)

Batch: 2444037 - 215-Hemp (Continued)

Blank(2444037-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Camphene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Camphor	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
3-Carene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
beta-Caryophyllene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Caryophyllene Oxide	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
alpha-Cedrene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Cedrol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Endo-fenchyl alcohol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Eucalyptol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Geraniol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Geranyl acetate	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Guaiol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
alpha-Humulene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Isoborneol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Isopulegol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Limonene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Linalool	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
beta-Myrcene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
trans-Nerolidol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
alpha-Pinene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
beta-Pinene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Pulegone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Sabinene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Sabinene hydrate	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
gamma-Terpinene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
alpha-Terpinene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Terpinolene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Valencene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Verbenone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
trans-beta-Farnesene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
A-Terpineol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
cis-Nerolidol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Thymol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Terpinen-4-ol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Squalene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Safranal	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Piperitone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	



Nolan Mundie
Lab Director - 11/1/2024

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Quality Control Terpene Analysis (Continued)

Batch: 2444037 - 215-Hemp (Continued)

Blank(2444037-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
p-Cymene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Octyl Acetate	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Nootkatone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Menthone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Menthol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Isobornyl Acetate	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Farnesol 1	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Carvone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
alpha-Thujone	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Alpha-Phellandrene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
(+)-Borneol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
(-)-Borneol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Carvacrol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
trans-beta-Ocimene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Cis-beta-Ocimene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Citral	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Citronellol	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Farnesol 2	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	
Cis-beta-Farnesene	< LOQ	0.000500	%		10/31/24 08:55	10/31/24 21:53	

Reference(2444037-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	106	0.00025	%	70-130	10/31/24 08:55	10/31/24 22:11	
beta-Caryophyllene	107	0.00025	%	70-130	10/31/24 08:55	10/31/24 22:11	
alpha-Humulene	110	0.00025	%	70-130	10/31/24 08:55	10/31/24 22:11	
Limonene	86.5	0.00025	%	70-130	10/31/24 08:55	10/31/24 22:11	



Nolan Mundie
Lab Director - 11/1/2024

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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.
 - C Interference due to co-elution
 - 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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