



CBG White

Sample ID: G4K0262-05

Matrix: Industrial Hemp

Test ID: 5034331

Source ID:

Date Sampled: 11/20/24

Date Accepted: 11/20/24

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 0.12 %

Total CBD : <LOQ (0.002% dry) %

Total CBG : 11 %

Percent Moisture : 7.77 % **PASS**

Total Terpenes : 0.726 % **PASS**



Nolan Mundie
Lab Director - 11/26/2024



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Potency Analysis

Date/Time Extracted: 11/22/24 09:18

Analysis Method/SOP: 215

Batch Identification: 2447063

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.010	0.12	1.2	<p>Legend: ■ THCA 0.1 ■ CBGA 13.0 ■ CBC 0.1 Total: 13.2</p>
Total CBD	0.002	< LOQ	< LOQ	
Total CBG	0.003	11	110	
THCA	0.0005	0.13	1.3	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.005	< LOQ	< LOQ	
THCV	0.005	< LOQ	< LOQ	
THCVA	0.002	< LOQ	< LOQ	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.005	< LOQ	< LOQ	
CBDVA	0.002	< LOQ	< LOQ	
CBN	0.003	< LOQ	< LOQ	
CBG	0.003	< LOQ	< LOQ	
CBGA	0.003	13	130	
CBC	0.010	0.081	0.81	

Moisture

Date/Time Extracted: 11/22/24 13:19

Analysis Method/SOP: 103

Moisture: 7.77 %

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 - 11/26/2024

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Test ID: 5034331

Source ID:

Date Sampled: 11/20/24

Date Accepted: 11/20/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Analysis by GCMS

Date/Time Extracted: 11/22/24 09:18

Analysis Method/SOP: 204

Date/Time Analyzed: 11/22/24 23:04

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	1.19	0.002	0.005	mg/g
alpha-Cedrene	< LOQ	0.002	0.005	mg/g	alpha-Humulene	0.5	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	0.15	0.002	0.005	mg/g	beta-Caryophyllene	1.58	0.002	0.005	mg/g
beta-Myrcene	0.79	0.002	0.005	mg/g	beta-Pinene	< LOQ	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	< LOQ	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	0.33	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	0.14	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	1.27	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	0.5	0.002	0.005	mg/g	Linalool	0.33	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	0.49	0.002	0.005	mg/g
Valencene	< LOQ	0.002	0.005	mg/g	Verbenone	< LOQ	0.002	0.005	mg/g
Total Terpenes	7.26	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 - 11/26/2024

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Test ID: 5034331

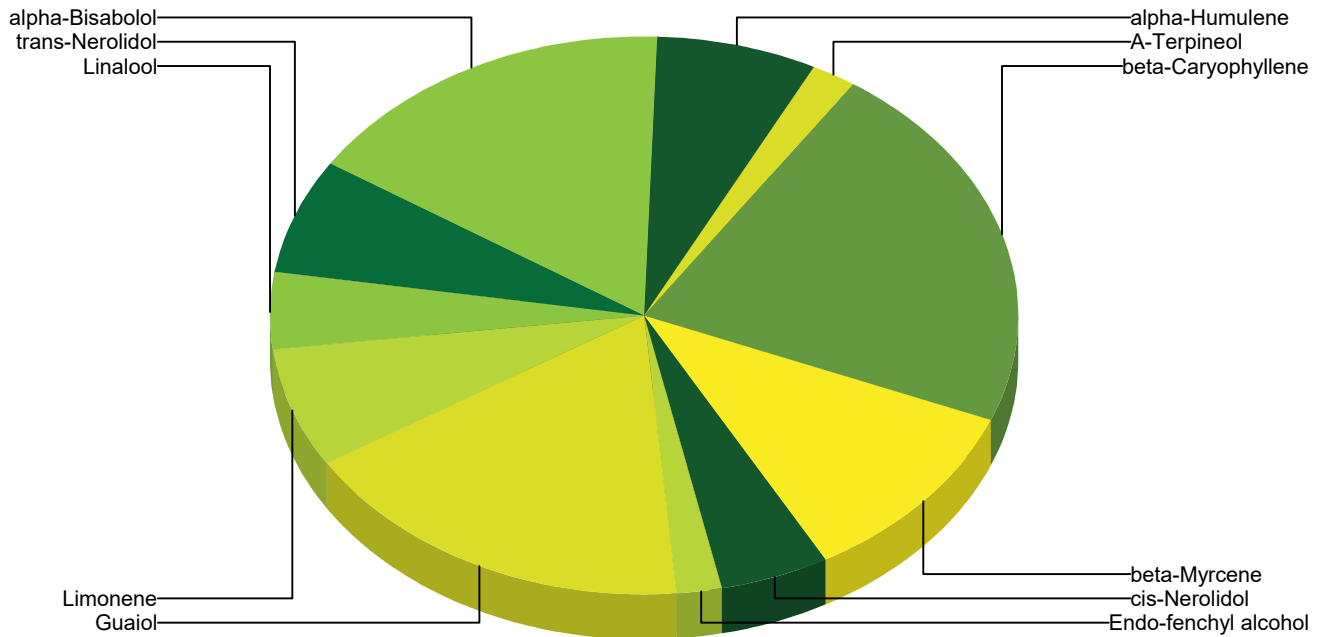
Source ID:

Date Sampled: 11/20/24

Date Accepted: 11/20/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



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Lab Director - 11/26/2024



Quality Control Potency

Batch: 2447063 - 215-Hemp

Blank(2447063-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	5.000E-4	%		11/22/24 09:18	11/23/24 01:34	
THCA	< LOQ	0.0005	%		11/22/24 09:18	11/23/24 01:34	
delta 9-THC	< LOQ	5.000E-4	%		11/22/24 09:18	11/23/24 01:34	
delta 9-THC	< LOQ	0.0005	%		11/22/24 09:18	11/23/24 01:34	
delta 8-THC	< LOQ	0.004	%		11/22/24 09:18	11/23/24 01:34	
delta 8-THC	< LOQ	0.004490	%		11/22/24 09:18	11/23/24 01:34	
THCV	< LOQ	0.005	%		11/22/24 09:18	11/23/24 01:34	
THCV	< LOQ	0.005055	%		11/22/24 09:18	11/23/24 01:34	
THCVA	< LOQ	0.002	%		11/22/24 09:18	11/23/24 01:34	
THCVA	< LOQ	0.001885	%		11/22/24 09:18	11/23/24 01:34	
CBD	< LOQ	0.0005	%		11/22/24 09:18	11/23/24 01:34	
CBD	< LOQ	5.000E-4	%		11/22/24 09:18	11/23/24 01:34	
CBDA	< LOQ	0.0005	%		11/22/24 09:18	11/23/24 01:34	
CBDA	< LOQ	5.000E-4	%		11/22/24 09:18	11/23/24 01:34	
CBDV	< LOQ	0.005	%		11/22/24 09:18	11/23/24 01:34	
CBDV	< LOQ	0.005000	%		11/22/24 09:18	11/23/24 01:34	
CBDVA	< LOQ	0.002	%		11/22/24 09:18	11/23/24 01:34	
CBDVA	< LOQ	0.001640	%		11/22/24 09:18	11/23/24 01:34	
CBN	< LOQ	0.003	%		11/22/24 09:18	11/23/24 01:34	
CBN	< LOQ	0.002990	%		11/22/24 09:18	11/23/24 01:34	
CBG	< LOQ	0.0008	%		11/22/24 09:18	11/23/24 01:34	
CBG	< LOQ	7.900E-4	%		11/22/24 09:18	11/23/24 01:34	
CBGA	< LOQ	7.900E-4	%		11/22/24 09:18	11/23/24 01:34	
CBGA	< LOQ	0.0008	%		11/22/24 09:18	11/23/24 01:34	
CBC	< LOQ	0.009	%		11/22/24 09:18	11/23/24 01:34	
CBC	< LOQ	0.008965	%		11/22/24 09:18	11/23/24 01:34	

Reference(2447063-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	110	0.0005	%	90-110	11/22/24 09:18	11/23/24 01:57	
THCA	110	5.000E-4	%	90-110	11/22/24 09:18	11/23/24 01:57	
delta 9-THC	99.6	0.0005	%	90-110	11/22/24 09:18	11/23/24 01:57	
delta 9-THC	99.6	5.000E-4	%	90-110	11/22/24 09:18	11/23/24 01:57	
delta 8-THC	94.5	0.004	%	90-110	11/22/24 09:18	11/23/24 01:57	
delta 8-THC	94.5	0.004490	%	90-110	11/22/24 09:18	11/23/24 01:57	
CBD	106	0.0005	%	90-110	11/22/24 09:18	11/23/24 01:57	
CBD	106	5.000E-4	%	90-110	11/22/24 09:18	11/23/24 01:57	
CBDA	106	0.0005	%	90-110	11/22/24 09:18	11/23/24 01:57	
CBDA	106	5.000E-4	%	90-110	11/22/24 09:18	11/23/24 01:57	



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Quality Control Terpene Analysis

Batch: 2447063 - 215-Hemp

Blank(2447063-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Camphene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Camphor	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
3-Carene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
beta-Caryophyllene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Caryophyllene Oxide	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
alpha-Cedrene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Cedrol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Endo-fenchyl alcohol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Eucalyptol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Geraniol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Geranyl acetate	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Guaiol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
alpha-Humulene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Isoborneol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Isopulegol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Limonene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Linalool	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
beta-Myrcene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
trans-Nerolidol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
alpha-Pinene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
beta-Pinene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Pulegone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Sabinene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Sabinene hydrate	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
gamma-Terpinene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
alpha-Terpinene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Terpinolene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Valencene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Verbenone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
trans-beta-Farnesene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
A-Terpineol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
cis-Nerolidol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Thymol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Terpinen-4-ol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Squalene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Safranal	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Piperitone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	



Nolan Mundie
Lab Director - 11/26/2024

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Quality Control Terpene Analysis (Continued)

Batch: 2447063 - 215-Hemp (Continued)

Blank(2447063-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
p-Cymene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Octyl Acetate	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Nootkatone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Menthone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Menthol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Isobornyl Acetate	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Farnesol 1	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Carvone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
alpha-Thujone	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Alpha-Phellandrene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
(+)-Borneol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
(-)-Borneol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Carvacrol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
trans-beta-Ocimene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Cis-beta-Ocimene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Citral	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Citronellol	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Farnesol 2	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	
Cis-beta-Farnesene	< LOQ	0.000500	%		11/22/24 09:18	11/22/24 21:13	

Reference(2447063-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	106	0.00025	%	70-130	11/22/24 09:18	11/22/24 21:32	
beta-Caryophyllene	103	0.00025	%	70-130	11/22/24 09:18	11/22/24 21:32	
alpha-Humulene	107	0.00025	%	70-130	11/22/24 09:18	11/22/24 21:32	
Limonene	77.5	0.00025	%	70-130	11/22/24 09:18	11/22/24 21:32	

Batch: 2447073 - 103

Blank(2447073-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.200		%		11/22/24 13:19	11/22/24 13:19	

Blank(2447073-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.240		%		11/22/24 13:19	11/22/24 13:19	

Reference(2447073-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	94.3		%	80-120	11/22/24 13:19	11/22/24 13:19	

Reference(2447073-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



Nolan Mundie
Lab Director - 11/26/2024



Quality Control Moisture Content (Continued)

Batch: 2447073 - 103 (Continued)

Reference(2447073-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	95.1		%	80-120	11/22/24 13:19	11/22/24 13:19	



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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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