



### CBG

Sample ID: G1K0041-05

Matrix: Industrial Hemp

Test ID: 5014384

Source ID:

Date Sampled: 11/02/21

Date Accepted: 11/02/21

*Fern Valley Farms*

### Results at a Glance

Total THC : 0.22 %

Total CBD : <LOQ (0.002% dry) %

Total CBG : 12 %

Percent Moisture : 7.46 % **PASS**



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LABORATORY**

Eric Wendt  
Chief Science Officer - 11/9/2021

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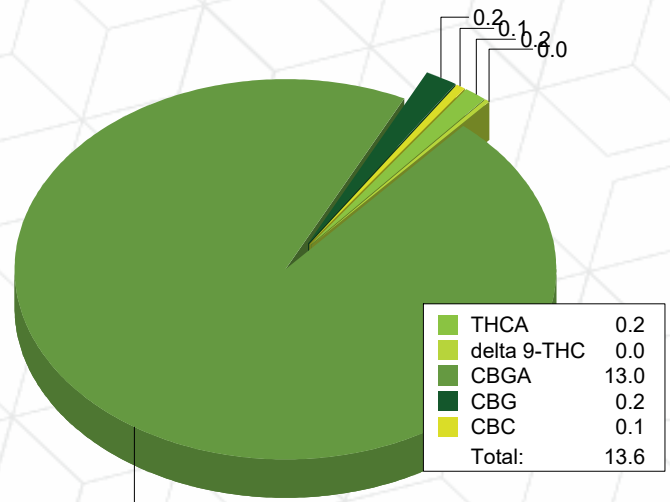
### Potency Analysis

Date/Time Extracted: 11/03/21 15:25

Analysis Method/SOP: 215

Batch Identification: 2145023

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.010	0.22	2.2	
Total CBD	0.002	< LOQ	< LOQ	
Total CBG	0.003	12	120	
THCA	0.0005	0.21	2.1	
delta 9-THC	0.0005	0.039	0.39	
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	0.24	2.4	
CBGA	0.003	13	130	
CBC	0.010	0.094	0.94	



### Moisture

Date/Time Extracted: 11/04/21 15:49

Analysis Method/SOP: 103

Moisture: 7.46 %

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.



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### Quality Control Potency

Batch: 2145023 - 215-Hemp

Blank(2145023-BLK3)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.002	%		11/03/21 15:25	11/05/21 11:42	
delta 9-THC	< LOQ	0.002	%		11/03/21 15:25	11/05/21 11:42	
delta 8-THC	< LOQ	0.018	%		11/03/21 15:25	11/05/21 11:42	
THCV	< LOQ	0.020	%		11/03/21 15:25	11/05/21 11:42	
THCVA	< LOQ	0.008	%		11/03/21 15:25	11/05/21 11:42	
CBD	< LOQ	0.002	%		11/03/21 15:25	11/05/21 11:42	
CBDA	< LOQ	0.002	%		11/03/21 15:25	11/05/21 11:42	
CBDV	< LOQ	0.020	%		11/03/21 15:25	11/05/21 11:42	
CBDVA	< LOQ	0.007	%		11/03/21 15:25	11/05/21 11:42	
CBN	< LOQ	0.012	%		11/03/21 15:25	11/05/21 11:42	
CBG	< LOQ	0.003	%		11/03/21 15:25	11/05/21 11:42	
CBGA	< LOQ	0.003	%		11/03/21 15:25	11/05/21 11:42	
CBC	< LOQ	0.036	%		11/03/21 15:25	11/05/21 11:42	

Reference(2145023-SRM3)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	97.3	0.0005	%	80-120	11/03/21 15:25	11/05/21 12:04	
delta 9-THC	94.2	0.0005	%	80-120	11/03/21 15:25	11/05/21 12:04	
CBD	95.6	0.0005	%	80-120	11/03/21 15:25	11/05/21 12:04	
CBDA	94.1	0.0005	%	80-120	11/03/21 15:25	11/05/21 12:04	

### Terpene Analysis

Batch: 2145023 - 215-Hemp

Blank(2145023-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Camphene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Camphor	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
3-Carene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
beta-Caryophyllene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Caryophyllene Oxide	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
alpha-Cedrene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Cedrol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Endo-fenchyl alcohol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Eucalyptol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Fenchone	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Geraniol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Geranyl acetate	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Guaiol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	



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### Quality Control Terpene Analysis (Continued)

#### Batch: 2145023 - 215-Hemp (Continued)

Blank(2145023-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Hexahydrothymol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
alpha-Humulene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Isoborneol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Isopulegol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Limonene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Linalool	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
p-Mentha-1,5-diene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
beta-Myrcene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
trans-Nerolidol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
alpha-Pinene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
beta-Pinene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Pulegone	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Sabinene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Sabinene hydrate	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
gamma-Terpinene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
alpha-Terpinene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Terpineol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Terpinolene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Valencene	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
B Y-Terpineol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Nerol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
A-Terpineol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
cis-Nerolidol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Borneol	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Ocimene isomer II	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	
Ocimene isomer I	< LOQ	4.000E-4	%		11/03/21 15:25	11/03/21 21:05	

Reference(2145023-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
beta-Caryophyllene	105	1.000E-4	%	70-130	11/03/21 15:25	11/03/21 21:23	
alpha-Humulene	120	1.000E-4	%	70-130	11/03/21 15:25	11/03/21 21:23	
beta-Myrcene	176	1.000E-4	%	70-130	11/03/21 15:25	11/03/21 21:23	BSH, ISH

#### Batch: 2145027 - 103

Reference(2145027-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	112		%	80-120	11/04/21 15:49	11/04/21 15:49	

Reference(2145027-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	117		%	80-120	11/04/21 15:49	11/04/21 15:49	



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### Notes and Definitions

- 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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