



Rainbow Sherbet

Sample ID: G4J0083-05

Matrix: Industrial Hemp

Test ID: 5027245

Source ID:

Date Sampled: 10/04/24

Date Accepted: 10/04/24

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 0.67 %

Total CBD : 15 %

Total CBG : 0.055 %

Percent Moisture : 8.48 % PASS

Total Terpenes : 1.535 % PASS



Rainbow Sherbet

Sample ID: G4J0083-05

Matrix: Industrial Hemp

Test ID: 5027245

Source ID:

Date Sampled: 10/04/24

Date Accepted: 10/04/24

Fern Valley Farms
fernvalleycbd@gmail.com

Potency Analysis

Date/Time Extracted: 10/07/24 12:55

Analysis Method/SOP: 215

Batch Identification: 2441007

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.005	0.67	6.7	
Total CBD	0.012	15	150	
Total CBG	0.0004	0.055	0.55	
THCA	0.0003	0.72	7.2	
delta 9-THC	0.0003	0.034	0.34	
delta 8-THC	0.002	< LOQ	< LOQ	
THCV	0.003	< LOQ	< LOQ	
THCVA	0.001	< LOQ	< LOQ	
CBD	0.003	< LOQ	< LOQ	
CBDA	0.003	17	170	
CBDV	0.003	< LOQ	< LOQ	
CBDVA	0.0009	0.086	0.86	
CBN	0.002	0.050	0.5	
CBG	0.0004	0.055	0.55	
CBGA	0.0004	< LOQ	< LOQ	
CBC	0.005	0.056	0.56	

Moisture

Date/Time Extracted: 10/07/24 16:04

Analysis Method/SOP: 103

Moisture: 8.48 %

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



Rainbow Sherbet

Sample ID: G4J0083-05

Matrix: Industrial Hemp

Test ID: 5027245

Source ID:

Date Sampled: 10/04/24

Date Accepted: 10/04/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Analysis by GCMS

Date/Time Extracted: 10/07/24 12:55

Analysis Method/SOP: 204

Date/Time Analyzed: 10/08/24 12:11

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	0.12	0.001	0.002	mg/g	(+)-Borneol	0.01	0.001	0.002	mg/g
3-Carene	0.09	0.001	0.002	mg/g	alpha-Bisabolol	0.75	0.001	0.002	mg/g
alpha-Cedrene	< LOQ	0.001	0.002	mg/g	alpha-Humulene	1.13	0.001	0.002	mg/g
Alpha-Phellandrene	0.13	0.001	0.002	mg/g	alpha-Pinene	< LOQ	0.001	0.002	mg/g
alpha-Terpinene	0.08	0.001	0.002	mg/g	alpha-Thujone	< LOQ	0.001	0.002	mg/g
A-Terpineol	< LOQ	0.001	0.002	mg/g	beta-Caryophyllene	2.22	0.001	0.002	mg/g
beta-Myrcene	1.26	0.001	0.002	mg/g	beta-Pinene	0.35	0.001	0.002	mg/g
Camphene	< LOQ	0.001	0.002	mg/g	Camphor	< LOQ	0.001	0.002	mg/g
Carvacrol	< LOQ	0.001	0.002	mg/g	Carvone	< LOQ	0.001	0.002	mg/g
Caryophyllene Oxide	0.17	0.001	0.002	mg/g	Cedrol	< LOQ	0.001	0.002	mg/g
Cis-beta-Farnesene	0.44	0.001	0.002	mg/g	Cis-beta-Ocimene	1.75	0.001	0.002	mg/g
cis-Nerolidol	< LOQ	0.001	0.002	mg/g	Citral	< LOQ	0.001	0.002	mg/g
Citronellol	< LOQ	0.001	0.002	mg/g	Endo-fenchyl alcohol	< LOQ	0.001	0.002	mg/g
Eucalyptol	0.13	0.001	0.002	mg/g	Farnesol 1	< LOQ	0.001	0.002	mg/g
Farnesol 2	< LOQ	0.001	0.002	mg/g	gamma-Terpinene	0.08	0.001	0.002	mg/g
Geraniol	< LOQ	0.001	0.002	mg/g	Geranyl acetate	< LOQ	0.001	0.002	mg/g
Guaiol	0.71	0.001	0.002	mg/g	Isoborneol	< LOQ	0.001	0.002	mg/g
Isobornyl Acetate	< LOQ	0.001	0.002	mg/g	Isopulegol	< LOQ	0.001	0.002	mg/g
Limonene	1.6	0.001	0.002	mg/g	Linalool	0.46	0.001	0.002	mg/g
Menthol	< LOQ	0.001	0.002	mg/g	Menthone	< LOQ	0.001	0.002	mg/g
Nootkatone	< LOQ	0.001	0.002	mg/g	Octyl Acetate	< LOQ	0.001	0.002	mg/g
p-Cymene	< LOQ	0.001	0.002	mg/g	Phytane	< LOQ	0.001	0.002	mg/g
Piperitone	< LOQ	0.001	0.002	mg/g	Pulegone	< LOQ	0.001	0.002	mg/g
Sabinene	< LOQ	0.001	0.002	mg/g	Sabinene hydrate	< LOQ	0.001	0.002	mg/g
Safranal	< LOQ	0.001	0.002	mg/g	Squalene	< LOQ	0.001	0.002	mg/g
Terpinen-4-ol	0.15	0.001	0.002	mg/g	Terpinolene	2.51	0.001	0.002	mg/g
Thymol	< LOQ	0.001	0.002	mg/g	trans-beta-Farnesene	0.42	0.001	0.002	mg/g
trans-beta-Ocimene	0.17	0.001	0.002	mg/g	trans-Nerolidol	0.35	0.001	0.002	mg/g
Valencene	< LOQ	0.001	0.002	mg/g	Verbenone	< LOQ	0.001	0.002	mg/g
Total Terpenes	15.35	0.001	0.002	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



Rainbow Sherbet

Sample ID: G4J0083-05

Matrix: Industrial Hemp

Test ID: 5027245

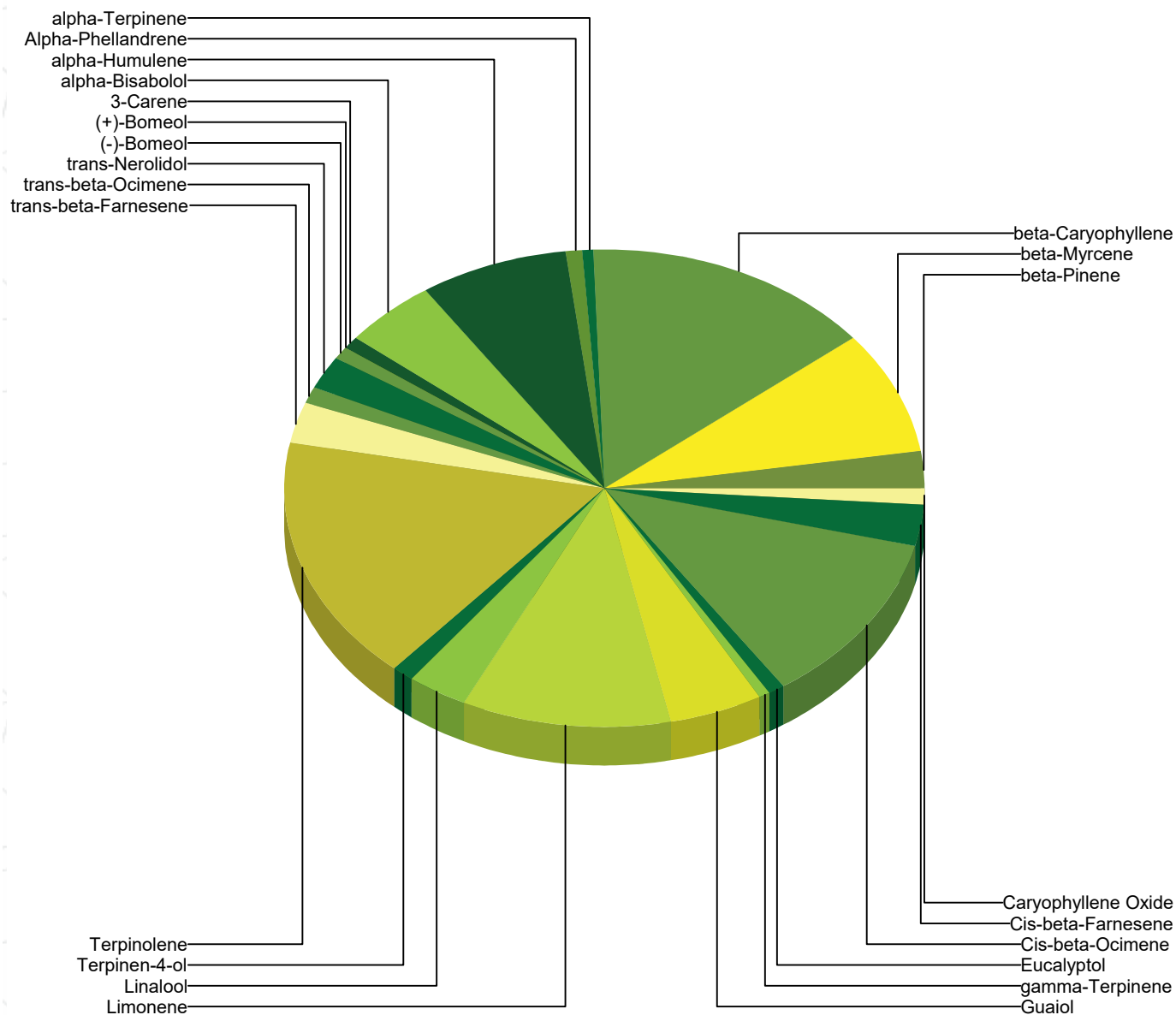
Source ID:

Date Sampled: 10/04/24

Date Accepted: 10/04/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



Quality Control Potency

Batch: 2441007 - 215-Hemp

Blank(2441007-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 00:23	
delta 9-THC	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 00:23	
delta 8-THC	< LOQ	0.003	%		10/07/24 12:55	10/08/24 00:23	
THCV	< LOQ	0.003	%		10/07/24 12:55	10/08/24 00:23	
THCVA	< LOQ	0.001	%		10/07/24 12:55	10/08/24 00:23	
CBD	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 00:23	
CBDA	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 00:23	
CBDV	< LOQ	0.003	%		10/07/24 12:55	10/08/24 00:23	
CBDVA	< LOQ	0.001	%		10/07/24 12:55	10/08/24 00:23	
CBN	< LOQ	0.002	%		10/07/24 12:55	10/08/24 00:23	
CBG	< LOQ	0.0005	%		10/07/24 12:55	10/08/24 00:23	
CBGA	< LOQ	0.0005	%		10/07/24 12:55	10/08/24 00:23	
CBC	< LOQ	0.006	%		10/07/24 12:55	10/08/24 00:23	

Reference(2441007-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	98.9	0.0005	%	90-110	10/07/24 12:55	10/08/24 13:07	
delta 9-THC	106	0.0005	%	90-110	10/07/24 12:55	10/08/24 13:07	
delta 8-THC	92.0	0.004	%	90-110	10/07/24 12:55	10/08/24 13:07	
CBD	95.4	0.0005	%	90-110	10/07/24 12:55	10/08/24 13:07	
CBDA	99.2	0.0005	%	90-110	10/07/24 12:55	10/08/24 13:07	

Terpene Analysis

Batch: 2441007 - 215-Hemp

Blank(2441007-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Camphene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Camphor	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
3-Carene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
beta-Caryophyllene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Caryophyllene Oxide	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
alpha-Cedrene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Cedrol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Endo-fenchyl alcohol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Eucalyptol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Geraniol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Geranyl acetate	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Guaial	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	



Quality Control Terpene Analysis (Continued)

Batch: 2441007 - 215-Hemp (Continued)

Blank(2441007-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Humulene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Isoborneol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Isopulegol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Limonene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Linalool	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
beta-Myrcene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
trans-Nerolidol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
alpha-Pinene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
beta-Pinene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Pulegone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Sabinene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Sabinene hydrate	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
gamma-Terpinene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
alpha-Terpinene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Terpinolene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Valencene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Verbenone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
trans-beta-Farnesene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
A-Terpineol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
cis-Nerolidol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Thymol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Terpinen-4-ol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Squalene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Safranal	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Piperitone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Phytane	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
p-Cymene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Octyl Acetate	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Nootkatone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Menthone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Menthol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Isobornyl Acetate	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Farnesol 1	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Carvone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
alpha-Thujone	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Alpha-Phellandrene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
(+)-Borneol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
(-)-Borneol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	



Quality Control Terpene Analysis (Continued)

Batch: 2441007 - 215-Hemp (Continued)

Blank(2441007-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Carvacrol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
trans-beta-Ocimene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Cis-beta-Ocimene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Citral	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Citronellol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Farnesol 2	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	
Cis-beta-Farnesene	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	

Reference(2441007-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol		0.00025	%	70-130	10/07/24 12:55	10/08/24 13:07	
beta-Caryophyllene		0.00025	%	70-130	10/07/24 12:55	10/08/24 13:07	
alpha-Humulene		0.00025	%	70-130	10/07/24 12:55	10/08/24 13:07	
Limonene		0.00025	%	70-130	10/07/24 12:55	10/08/24 13:07	

Reference(2441007-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	84.9	0.00025	%	70-130	10/07/24 12:55	10/08/24 13:06	
beta-Caryophyllene	88.9	0.00025	%	70-130	10/07/24 12:55	10/08/24 13:06	
alpha-Humulene	94.1	0.00025	%	70-130	10/07/24 12:55	10/08/24 13:06	
Limonene	70.2	0.00025	%	70-130	10/07/24 12:55	10/08/24 13:06	

Batch: 2441010 - 103

Blank(2441010-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.240		%		10/07/24 16:04	10/07/24 16:04	

Blank(2441010-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.240		%		10/07/24 16:04	10/07/24 16:04	

Reference(2441010-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	106		%	80-120	10/07/24 16:04	10/07/24 16:04	

Reference(2441010-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	107		%	80-120	10/07/24 16:04	10/07/24 16:04	



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
C	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
TPP	recovery accuracy in Matrix Spike.
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