



### D8 Rainbow Sherbert

Sample ID: G4J0083-02

Matrix: Industrial Hemp

Test ID: 5027242

Source ID:

Date Sampled: 10/04/24

Date Accepted: 10/04/24

**Fern Valley Farms**  
fernvalleycbd@gmail.com

### Results at a Glance

Total THC : 0.39 %

Total CBD : 10 %

Total CBG : 0.041 %

delta 8-THC : 23 % dry PASS

Percent Moisture : 5.20 % PASS



**ISO 17025**  
ACCREDITED  
LABORATORY

Nolan Mundie  
Lab Director - 10/9/2024

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### 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	0.39	3.9		
Total CBD	0.011	10	100		
Total CBG	0.0004	0.041	0.41		
THCA	0.0003	0.44	4.4		
delta 9-THC	0.0003	< LOQ	< LOQ		
delta 8-THC	0.024	23	230		
THCV	0.003	< LOQ	< LOQ		
THCVA	0.001	< LOQ	< LOQ		
CBD	0.003	< LOQ	< LOQ		
CBDA	0.003	12	120		
CBDV	0.003	< LOQ	< LOQ		
CBDVA	0.0009	0.035	0.35		
CBN	0.002	0.99	9.9		
CBG	0.0004	0.041	0.41		
CBGA	0.0004	< LOQ	< LOQ		
CBC	0.005	0.12	1.2		

### Moisture

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

Analysis Method/SOP: 103

Moisture: 5.20 %

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



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### 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	
Guaiol	< LOQ	0.0003	%		10/07/24 12:55	10/08/24 11:52	



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### 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	



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### 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	



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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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