



Sour GMO

Sample ID: G3I0103-01

Matrix: Hemp Extracts & Concentrates

Test ID: 5024057

Source ID:

Date Sampled: 09/08/23

Date Accepted: 09/08/23

R&D Testing

Results at a Glance

Total THC : 65.91 %

Total CBD : <LOQ (0.0431%) %

Total Terpenes : 7.094 % PASS



**ISO 17025
ACCREDITED
LABORATORY**

Eric Wendt
Chief Science Officer - 9/11/2023



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R&D Testing

Potency Analysis by HPLC

Date/Time Extracted: 09/09/23 10:01

Analysis Method/SOP: 215

Batch Identification: 2336079

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.0005	65.91	659.1	<p>THCA 75.2 CBGA 1.8 THCVA 0.6 Total: 77.6</p>
Total CBD	0.0431	< LOQ	< LOQ	
THCA	0.0005	75.15	751.5	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	0.6446	6.446	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	< LOQ	< LOQ	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	1.845	18.45	
CBC	0.0186	< LOQ	< LOQ	
Total Cannabinoids		77.64	776.4	

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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Test ID: 5024057
Source ID:
Date Sampled: 09/08/23 Date Accepted: 09/08/23

R&D Testing

Terpene Analysis by GCMS

Date/Time Extracted: 09/09/23 10:01

Analysis Method/SOP: 204

Date/Time Analyzed: 09/09/23 18:18

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.001	0.003	mg/g	(+)-Borneol	< LOQ	0.001	0.003	mg/g
3-Carene	< LOQ	0.001	0.003	mg/g	alpha-Bisabolol	4.52	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	10.07	0.001	0.003	mg/g
Alpha-Phellandrene	< LOQ	0.001	0.003	mg/g	alpha-Pinene	0.8	0.001	0.003	mg/g
alpha-Terpinene	< LOQ	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.24	0.001	0.003	mg/g	beta-Caryophyllene	22.65	0.001	0.003	mg/g
beta-Myrcene	4.13	0.001	0.003	mg/g	beta-Pinene	1.47	0.001	0.003	mg/g
Camphene	0.2	0.001	0.003	mg/g	Camphor	< LOQ	0.001	0.003	mg/g
Carvacrol	< LOQ	0.001	0.003	mg/g	Carvone	< LOQ	0.001	0.003	mg/g
Caryophyllene Oxide	8.26	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	< LOQ	0.001	0.003	mg/g	Cis-beta-Ocimene	< LOQ	0.001	0.003	mg/g
cis-Nerolidol	< LOQ	0.001	0.003	mg/g	Citral	< LOQ	0.001	0.003	mg/g
Citronellol	< LOQ	0.001	0.003	mg/g	Endo-fenchyl alcohol	< LOQ	0.001	0.003	mg/g
Eucalyptol	< LOQ	0.001	0.003	mg/g	Farnesol 1	6.09	0.001	0.003	mg/g
Farnesol 2	0.71	0.001	0.003	mg/g	gamma-Terpinene	< LOQ	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	< LOQ	0.001	0.003	mg/g
Guaiol	< LOQ	0.001	0.003	mg/g	Isoborneol	< LOQ	0.001	0.003	mg/g
Isobornyl Acetate	< LOQ	0.001	0.003	mg/g	Isopulegol	< LOQ	0.001	0.003	mg/g
Limonene	8.17	0.001	0.003	mg/g	Linalool	0.48	0.001	0.003	mg/g
Menthol	< LOQ	0.001	0.003	mg/g	Menthone	< LOQ	0.001	0.003	mg/g
Nootkatone	< LOQ	0.001	0.003	mg/g	Octyl Acetate	< LOQ	0.001	0.003	mg/g
p-Cymene	< LOQ	0.001	0.003	mg/g	Phytane	< LOQ	0.001	0.003	mg/g
Piperitone	< LOQ	0.001	0.003	mg/g	Pulegone	< LOQ	0.001	0.003	mg/g
Sabinene	< LOQ	0.001	0.003	mg/g	Sabinene hydrate	< LOQ	0.001	0.003	mg/g
Safranal	< LOQ	0.001	0.003	mg/g	Squalene	< LOQ	0.001	0.003	mg/g
Terpinen-4-ol	0.15	0.001	0.003	mg/g	Terpinolene	< LOQ	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	< LOQ	0.001	0.003	mg/g
trans-beta-Ocimene	< LOQ	0.001	0.003	mg/g	trans-Nerolidol	1.88	0.001	0.003	mg/g
Valencene	1.27	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
Total Terpenes	70.94	0.001	0.003	mg/g					

ND - Compound not detected, <LOQ - Results below the Limit of Quantitation
Terpenes are not Accredited by ORELAP to TNI 2016



Eric Wendt
Chief Science Officer - 9/11/2023



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Test ID: 5024057

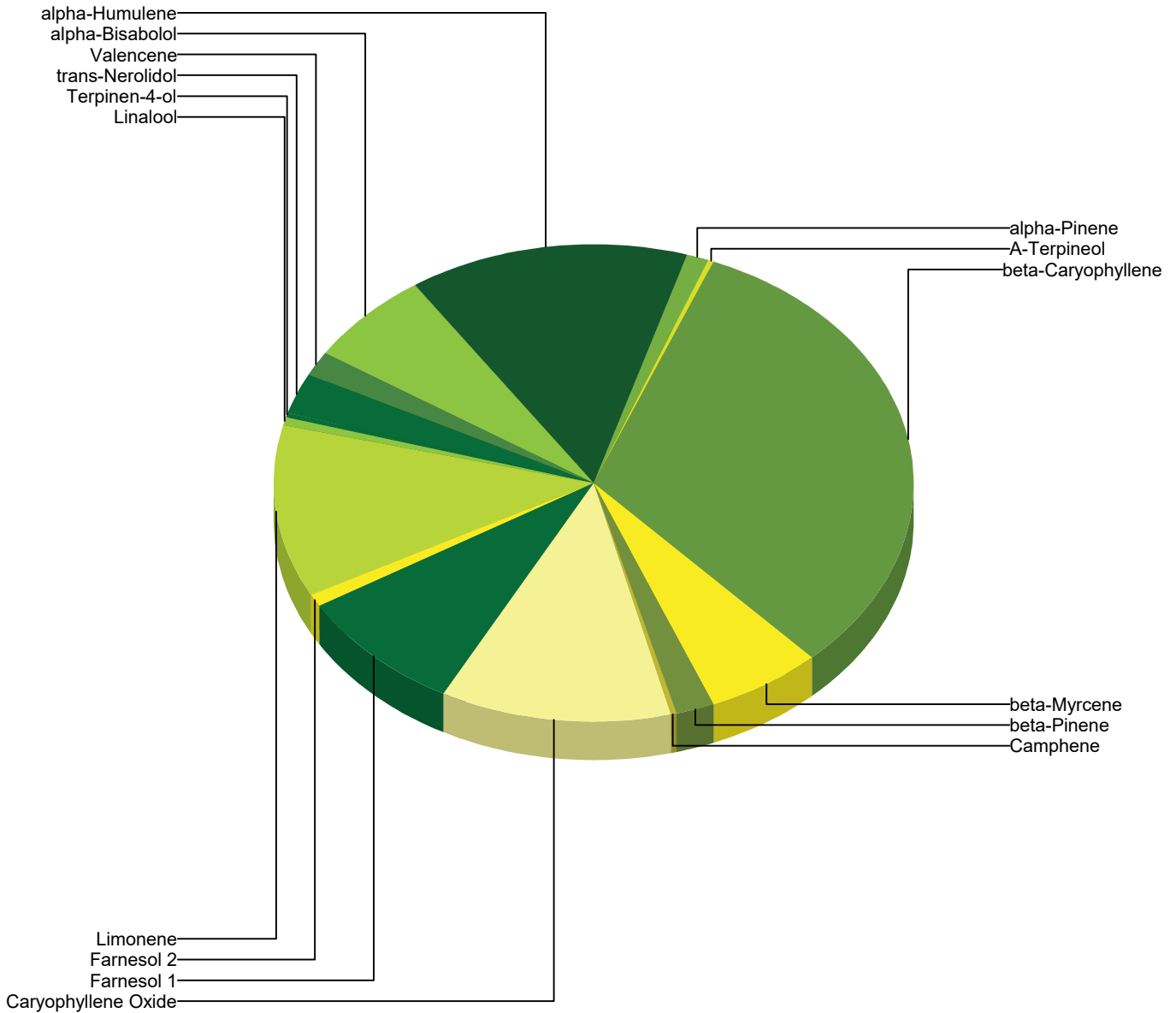
Source ID:

Date Sampled: 09/08/23

Date Accepted: 09/08/23

R&D Testing

Terpene Profile



Percentage of Total Terpenes Identified



Eric Wendt
Chief Science Officer - 9/11/2023



Quality Control Potency

Batch: 2336079 - 215-Concentrates

Blank(2336079-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		09/09/23 10:01	09/09/23 17:46	
delta 9-THC	< LOQ	0.0005	%		09/09/23 10:01	09/09/23 17:46	
delta 8-THC	< LOQ	0.0934	%		09/09/23 10:01	09/09/23 17:46	
THCV	< LOQ	0.1052	%		09/09/23 10:01	09/09/23 17:46	
THCVA	< LOQ	0.0392	%		09/09/23 10:01	09/09/23 17:46	
CBD	< LOQ	0.0005	%		09/09/23 10:01	09/09/23 17:46	
CBDA	< LOQ	0.0005	%		09/09/23 10:01	09/09/23 17:46	
CBDV	< LOQ	0.1040	%		09/09/23 10:01	09/09/23 17:46	
CBDVA	< LOQ	0.0341	%		09/09/23 10:01	09/09/23 17:46	
CBN	< LOQ	0.0622	%		09/09/23 10:01	09/09/23 17:46	
CBG	< LOQ	0.0164	%		09/09/23 10:01	09/09/23 17:46	
CBGA	< LOQ	0.0164	%		09/09/23 10:01	09/09/23 17:46	
CBC	< LOQ	0.0186	%		09/09/23 10:01	09/09/23 17:46	

Reference(2336079-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	102	0.0002	%	90-110	09/09/23 10:01	09/09/23 18:09	
delta 9-THC	106	0.0002	%	90-110	09/09/23 10:01	09/09/23 18:09	
delta 8-THC	101	0.0465	%	90-110	09/09/23 10:01	09/09/23 18:09	
CBD	101	0.0002	%	90-110	09/09/23 10:01	09/09/23 18:09	
CBDA	97.7	0.0002	%	90-110	09/09/23 10:01	09/09/23 18:09	

Terpene Analysis

Batch: 2336079 - 215-Concentrates

Blank(2336079-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Camphene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Camphor	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
3-Carene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
beta-Caryophyllene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Caryophyllene Oxide	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
alpha-Cedrene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Cedrol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Endo-fenchyl alcohol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Eucalyptol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Geraniol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Geranyl acetate	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Guaiol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	



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Quality Control Terpene Analysis (Continued)

Batch: 2336079 - 215-Concentrates (Continued)

Blank(2336079-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Humulene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Isoborneol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Isopulegol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Limonene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Linalool	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
beta-Myrcene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
trans-Nerolidol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
alpha-Pinene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
beta-Pinene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Pulegone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Sabinene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Sabinene hydrate	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
gamma-Terpinene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
alpha-Terpinene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Terpinolene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Valencene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Verbenone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
trans-beta-Farnesene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
A-Terpineol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
cis-Nerolidol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Thymol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Terpinen-4-ol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Squalene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Safranal	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Piperitone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Phytane	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
p-Cymene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Octyl Acetate	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Nootkatone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Menthone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Menthol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Isobornyl Acetate	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Farnesol 1	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Carvone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
alpha-Thujone	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Alpha-Phellandrene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
(+)-Borneol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
(-)-Borneol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	



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Quality Control Terpene Analysis (Continued)

Batch: 2336079 - 215-Concentrates (Continued)

Blank(2336079-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Carvacrol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
trans-beta-Ocimene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Cis-beta-Ocimene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Citral	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Citronellol	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Farnesol 2	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	
Cis-beta-Farnesene	< LOQ	0.00025	%		09/09/23 10:01	09/09/23 17:41	

Reference(2336079-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	76.5	0.0001	%	0-130	09/09/23 10:01	09/09/23 18:00	
beta-Caryophyllene	99.9	0.0001	%	70-130	09/09/23 10:01	09/09/23 18:00	
Limonene	87.4	0.0001	%	70-130	09/09/23 10:01	09/09/23 18:00	
beta-Myrcene	105	0.0001	%	70-130	09/09/23 10:01	09/09/23 18:00	



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Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 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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