



Green Gleaux Hash Rosin

Sample ID: G2D0403-01

Matrix: Hemp Extracts &

Test ID: 5021156

Source ID:

Date Sampled: 04/26/22

Date Accepted: 04/26/22

Arete Hemp LLC

Results at a Glance

Total THC : 18.41 %

Total CBD : 60.79 %

Total Terpenes : 1.894 % PASS



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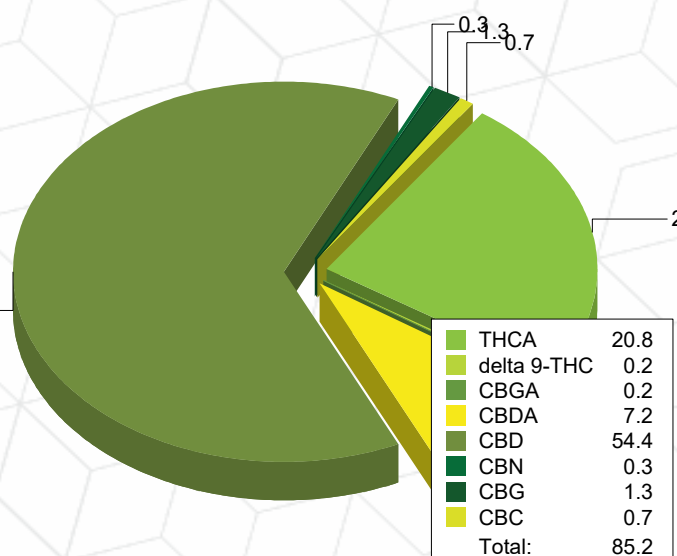
Potency Analysis

Date/Time Extracted: 04/26/22 14:28

Analysis Method/SOP: 215

Batch Identification: 2218013

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	18.41	184.1	
Total CBD	0.0431	60.79	607.9	
THCA	0.0005	20.76	207.6	
delta 9-THC	0.0005	0.2013	2.013	
delta 8-THC	0.0934	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	54.45	544.5	
CBDA	0.0005	7.229	72.29	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	0.2755	2.755	
CBG	0.0164	1.348	13.48	
CBGA	0.0164	0.1596	1.596	
CBC	0.0186	0.7279	7.279	
Total Cannabinoids		85.15	851.5	



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.



Eric Wendt

Eric Wendt
Chief Science Officer - 5/5/2022

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Test ID: 5021156

Source ID:

Date Sampled: 04/26/22

Date Accepted: 04/26/22

Arete Hemp LLC

Terpene Analysis by GCMS

Date/Time Extracted: 04/28/22 09:49

Analysis Method/SOP: 204

Date/Time Analyzed: 04/28/22 16:15

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	1.35	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	0.52	0.001	0.003	mg/g
Alpha-Phellandrene	< LOQ	0.001	0.003	mg/g	alpha-Pinene	0.85	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	< LOQ	0.001	0.003	mg/g	beta-Caryophyllene	3.49	0.001	0.003	mg/g
beta-Myrcene	2.46	0.001	0.003	mg/g	beta-Pinene	< LOQ	0.001	0.003	mg/g
Camphene	< LOQ	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	1.15	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	0.83	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	2.55	0.001	0.003	mg/g
Farnesol 2	< LOQ	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	0.84	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	3.18	0.001	0.003	mg/g	Linalool	1.73	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	< LOQ	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	< LOQ	0.001	0.003	mg/g
Valencene	< LOQ	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
Total Terpenes	18.94	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



[Signature]

Eric Wendt
Chief Science Officer - 5/5/2022

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Test ID: 5021156

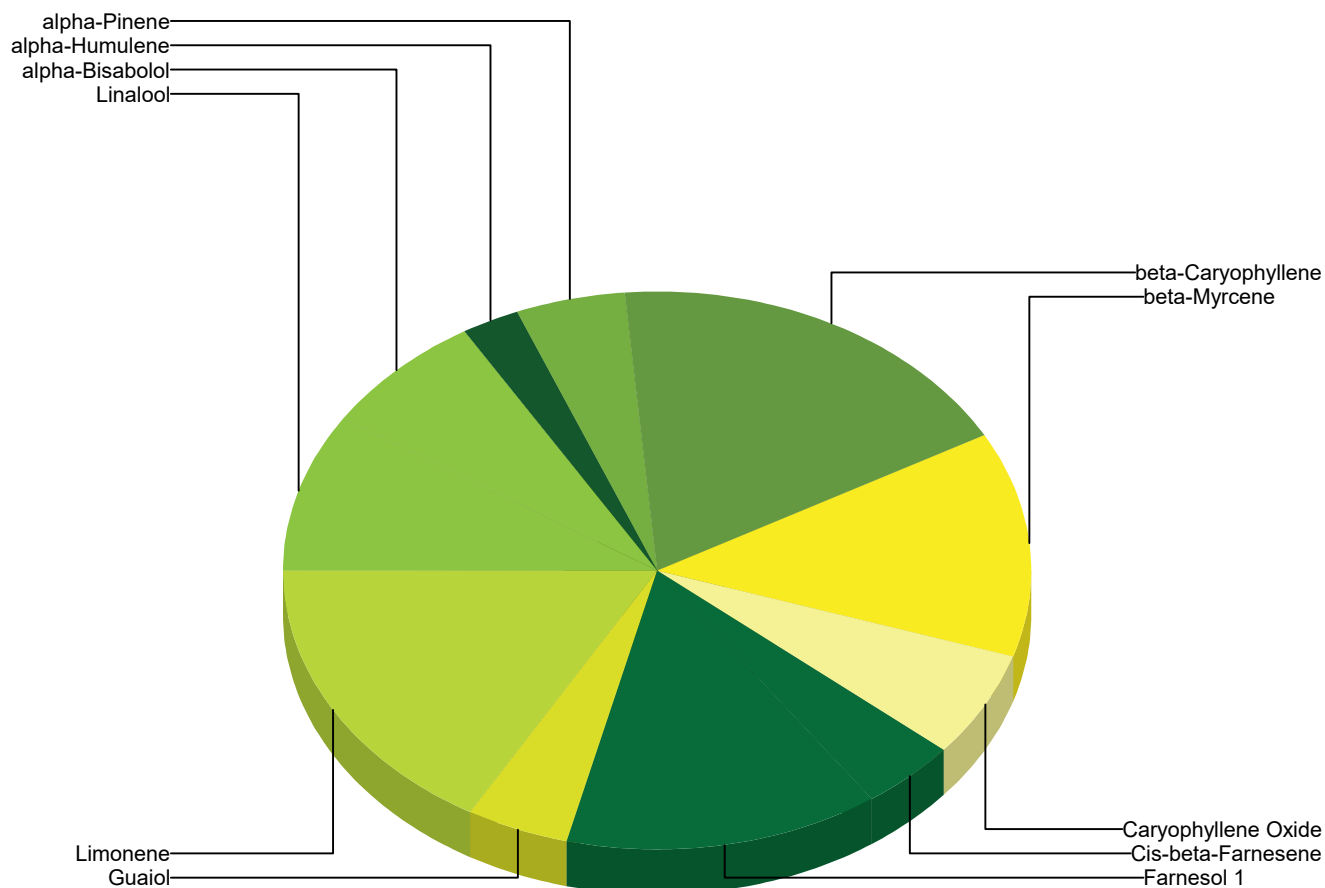
Source ID:

Date Sampled: 04/26/22

Date Accepted: 04/26/22

Arete Hemp LLC

Terpene Profile



Percentage of Total Terpenes Identified



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Chief Science Officer - 5/5/2022

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Quality Control Potency

Batch: 2218013 - 215-Concentrates

Blank(2218013-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		04/26/22 14:28	04/26/22 17:38	
delta 9-THC	< LOQ	0.0005	%		04/26/22 14:28	04/26/22 17:38	
delta 8-THC	< LOQ	0.0934	%		04/26/22 14:28	04/26/22 17:38	
THCV	< LOQ	0.1052	%		04/26/22 14:28	04/26/22 17:38	
THCVA	< LOQ	0.0392	%		04/26/22 14:28	04/26/22 17:38	
CBD	< LOQ	0.0005	%		04/26/22 14:28	04/26/22 17:38	
CBDA	< LOQ	0.0005	%		04/26/22 14:28	04/26/22 17:38	
CBDV	< LOQ	0.1040	%		04/26/22 14:28	04/26/22 17:38	
CBDVA	< LOQ	0.0341	%		04/26/22 14:28	04/26/22 17:38	
CBN	< LOQ	0.0622	%		04/26/22 14:28	04/26/22 17:38	
CBG	< LOQ	0.0164	%		04/26/22 14:28	04/26/22 17:38	
CBGA	< LOQ	0.0164	%		04/26/22 14:28	04/26/22 17:38	
CBC	< LOQ	0.0186	%		04/26/22 14:28	04/26/22 17:38	

Reference(2218013-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	105	0.0001	%	90-110	04/26/22 14:28	04/26/22 18:01	
delta 9-THC	108	0.0001	%	90-110	04/26/22 14:28	04/26/22 18:01	
delta 8-THC	98.0	0.0228	%	90-110	04/26/22 14:28	04/26/22 18:01	
CBD	92.4	0.0001	%	90-110	04/26/22 14:28	04/26/22 18:01	
CBDA	93.1	0.0001	%	90-110	04/26/22 14:28	04/26/22 18:01	

Terpene Analysis

Batch: 2218028 - 215-Concentrates

Blank(2218028-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Camphene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Camphor	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
3-Carene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
beta-Caryophyllene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Caryophyllene Oxide	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
alpha-Cedrene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Cedrol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Endo-fenchyl alcohol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Eucalyptol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Geraniol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Geranyl acetate	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Guaiol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	



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Quality Control Terpene Analysis (Continued)

Batch: 2218028 - 215-Concentrates (Continued)

Blank(2218028-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Humulene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Isoborneol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Isopulegol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Limonene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Linalool	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
beta-Myrcene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
trans-Nerolidol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
alpha-Pinene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
beta-Pinene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Pulegone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Sabinene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Sabinene hydrate	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
gamma-Terpinene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
alpha-Terpinene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Terpinolene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Valencene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Verbenone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
trans-beta-Farnesene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
A-Terpineol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
cis-Nerolidol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Thymol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Terpinen-4-ol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Squalene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Safranal	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Piperitone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Phytane	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
p-Cymene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Octyl Acetate	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Nootkatone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Menthone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Menthol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Isobornyl Acetate	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Farnesol 1	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Carvone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
alpha-Thujone	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Alpha-Phellandrene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
(+)-Borneol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
(-)-Borneol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	



Quality Control Terpene Analysis (Continued)

Batch: 2218028 - 215-Concentrates (Continued)

Blank(2218028-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Carvacrol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
trans-beta-Ocimene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Cis-beta-Ocimene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Citral	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Citronellol	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Farnesol 2	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	
Cis-beta-Farnesene	< LOQ	0.00025	%		04/28/22 09:49	04/28/22 15:39	

Reference(2218028-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
beta-Caryophyllene	84.5	0.00006	%	70-130	04/28/22 09:49	04/28/22 15:57	
alpha-Humulene	89.5	0.00006	%	70-130	04/28/22 09:49	04/28/22 15:57	
Limonene	106	0.00006	%	70-130	04/28/22 09:49	04/28/22 15:57	
beta-Myrcene	93.7	0.00006	%	70-130	04/28/22 09:49	04/28/22 15:57	



Ammended Report Explanation

Client requested that the name reflected on the COA with terpenes be "Green Gleaux Hash Rosin" -MM 04.27

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.

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