



### 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



**ISO 17025**  
ACCREDITED  
LABORATORY

Eric Wendt  
Chief Science Officer - 5/5/2022

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Date Sampled: 04/26/22 Date Accepted: 04/26/22

Arete Hemp LLC

### 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	
<b>Total Cannabinoids</b>		<b>85.15</b>	<b>851.5</b>	

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: 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
<b>Total Terpenes</b>	<b>18.94</b>	<b>0.001</b>	<b>0.003</b>	<b>mg/g</b>					

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 - 5/5/2022



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Sample ID: G2D0403-01

Matrix: Hemp Extracts &

Test ID: 5021156

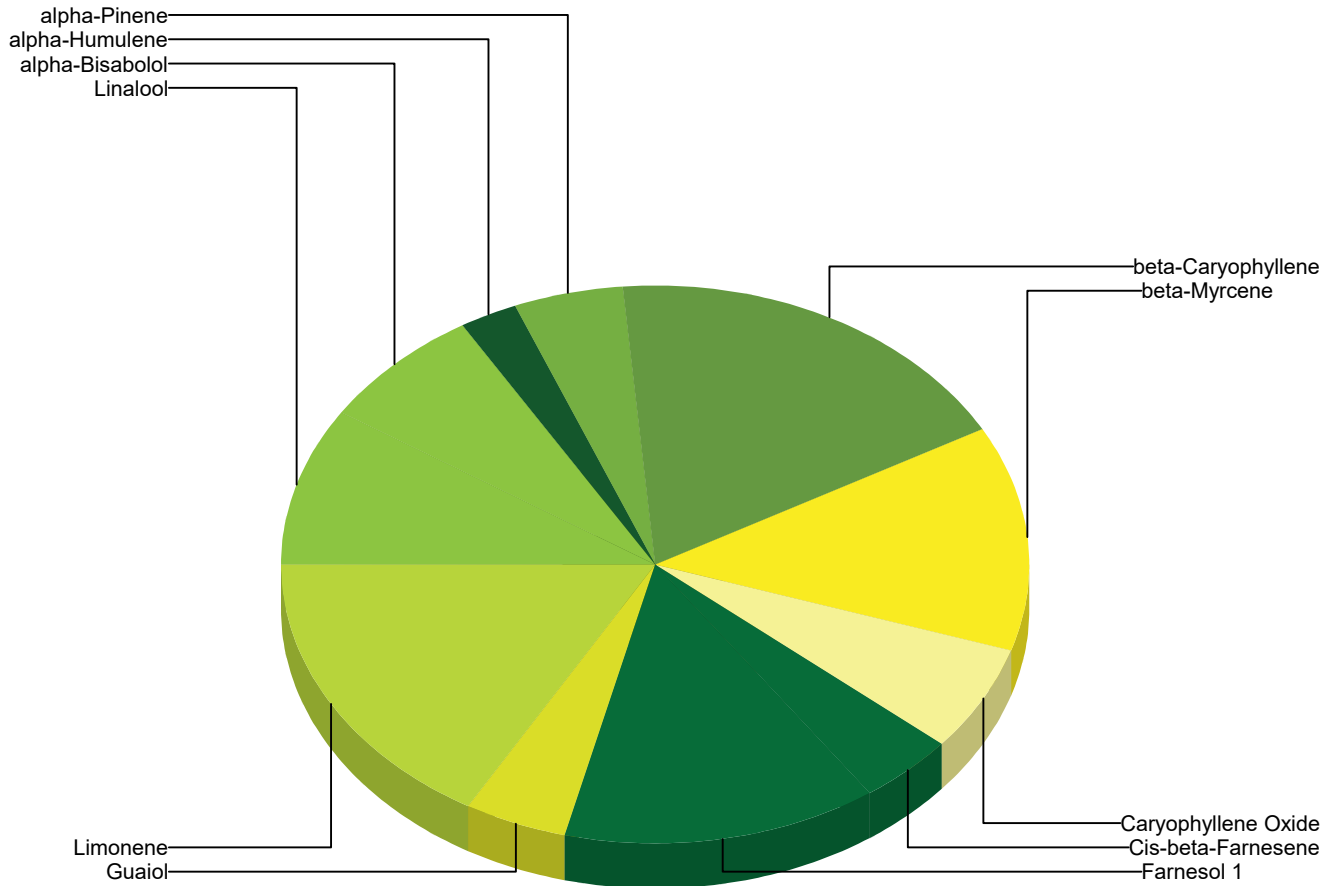
Source ID:

Date Sampled: 04/26/22

Date Accepted: 04/26/22

**Arete Hemp LLC**

### Terpene Profile



### Percentage of Total Terpenes Identified



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Chief Science Officer - 5/5/2022



### 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	



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Chief Science Officer - 5/5/2022

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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
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	



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### 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 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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