



Grumpy Gorilla Hydroponic

Sample ID: G0B0312-01 Matrix: Industrial Hemp

Test ID: 5001370

Source ID:

Date Sampled: 02/19/20 Date Accepted: 02/19/20

Harvest/Prod. Date: 11-26-2019

Arete Hemp LLC

Potency Analysis

Date/Time Extracted: 02/19/20 12:57

Analysis Method/SOP: 215

Batch Identification: 2008036

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile	
Total THC	0.0097	0.8609	8.609		
Total CBD	0.0089	19.63	196.3		
THCA	0.0031	0.8851	8.851		
delta 9-THC	0.0097	0.0847	0.847		
THCV	0.0054	< LOQ	< LOQ		
THCVA	0.0020	< LOQ	< LOQ		
CBD	0.0067	0.6374	6.374		
CBDA	0.0089	21.65	216.5		
CBDV	0.0054	< LOQ	< LOQ		
CBDVA	0.0018	0.1747	1.747		
CBN	0.0032	< LOQ	< LOQ		
CBG	0.0008	0.0906	0.906		
CBGA	0.0008	1.023	10.23		
CBC	0.0096	0.1441	1.441		

Cannabinoid	Percentage
THCA	0.9
delta 9-THC	0.1
CBGA	1.0
CBDA	21.7
CBD	0.6
CBG	0.1
CBC	0.1
CBDVA	0.2
Total	24.7

Moisture

Date/Time Extracted: 02/19/20 16:27

Analysis Method/SOP: 103

Moisture: 6.86 %

Action Level: 15%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



ISO 17025
ACCREDITED
LABORATORY

Russell Kuhfeld

Russell Kuhfeld
Quality Officer - 2/21/2020

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

Lab results apply to the sample as received, samples were not collected per OAR 333-007 requirements



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Terpene Analysis

Date/Time Extracted: 02/19/20 12:57

Analysis Method/SOP: 204

Monoterpenes	%	mg/g	Monoterpenes	%	mg/g
Camphene	< LOQ	< LOQ	Camphor	< LOQ	< LOQ
3-Carene	< LOQ	< LOQ	alpha-Cedrene	< LOQ	< LOQ
Cedrol	< LOQ	< LOQ	Endo-fenchyl alcohol	0.02592	0.2592
Eucalyptol	< LOQ	< LOQ	Fenchone	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ	Geranyl acetate	< LOQ	< LOQ
Hexahydrothymol	< LOQ	< LOQ	Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ	Limonene	0.06458	0.6458
Linalool	0.03191	0.3191	p-Mentha-1,5-diene	< LOQ	< LOQ
beta-Myrcene	0.7926	7.926	alpha-Pinene	0.01543	0.1543
beta-Pinene	0.01240	0.124	Pulegone	< LOQ	< LOQ
Sabinene	< LOQ	< LOQ	Sabinene hydrate	< LOQ	< LOQ
gamma-Terpinene	< LOQ	< LOQ	alpha-Terpinene	< LOQ	< LOQ
Terpineol	0.01671	0.1671	Terpinolene	< LOQ	< LOQ
B Y-Terpineol	< LOQ	< LOQ	Nerol	< LOQ	< LOQ
A-Terpineol	0.02653	0.2653	Borneol	< LOQ	< LOQ
Ocimene isomer II	0.07471	0.7471	Ocimene isomer I	< LOQ	< LOQ
Sesquiterpenes	%	mg/g	Sesquiterpenes	%	mg/g
alpha-Bisabolol	0.04470	0.447	beta-Caryophyllene	0.1823	1.823
Caryophyllene Oxide	0.01298	0.1298	Guaiol	0.06265	0.6265
alpha-Humulene	0.04350	0.435	trans-Nerolidol	< LOQ	< LOQ
Valencene	0.01258	0.1258	cis-Nerolidol	0.09346	0.9346
Total Terpenes	1.496	14.96			

<LOQ - Results below the Limit of Quantitation - Terpenes profile/analysis are not accredited to ORELAP TNI 2009 Quality Standards.



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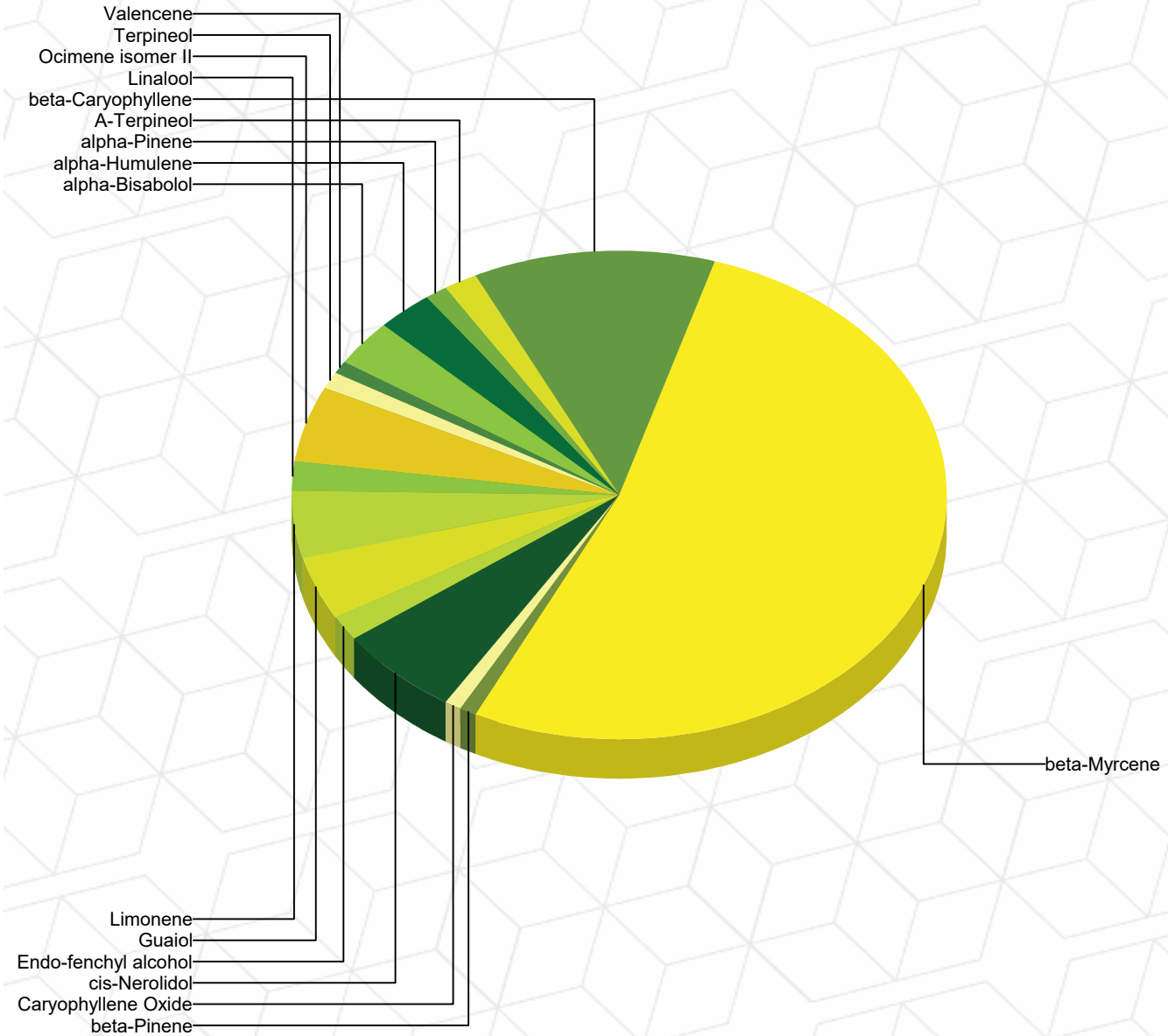
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Terpene Profile



Percentage of Total Terpenes Identified



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