



Northern Lights Batch #G20019

Sample ID: G0G0155-06

Matrix: Hemp Extracts &

Test ID: M5008201

Source ID:

Date Sampled: 07/02/20

Date Accepted: 07/02/20

Results at a Glance

Total THC : <LOQ (0.6307%) %

Total CBD : <LOQ (0.1725%) %

Total Terpenes : 3.734 % PASS



Russell Kuhfeld

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Quality Officer - 7/17/2020

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Potency Analysis

Date/Time Extracted: 07/10/20 08:05 Analysis Method/SOP: 215 Batch Identification: 2028045

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.6307	< LOQ	< LOQ	<p>85.7</p> <p>delta 8-THC 85.7 Total: 85.7</p>
Total CBD	0.1725	< LOQ	< LOQ	
THCA	0.2428	< LOQ	< LOQ	
delta 9-THC	0.6307	< LOQ	< LOQ	
delta 8-THC	0.3736	85.73	857.3	
Exo-THC	0.0868	< LOQ	< LOQ	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0324	< LOQ	< LOQ	
CBDA	0.0431	< 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	< LOQ	< LOQ	
CBC	0.1864	< LOQ	< LOQ	

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.



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Terpene Analysis

Date/Time Extracted: 07/10/20 08:05

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	0.05356	0.5356
Eucalyptol	0.007627	0.07627	Fenchone	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ	Geranyl acetate	< LOQ	< LOQ
Hexahydrothymol	< LOQ	< LOQ	Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ	Limonene	0.1834	1.834
Linalool	< LOQ	< LOQ	p-Mentha-1,5-diene	< LOQ	< LOQ
beta-Myrcene	0.3946	3.946	alpha-Pinene	0.2599	2.599
beta-Pinene	0.1385	1.385	Pulegone	< LOQ	< LOQ
Sabinene	< LOQ	< LOQ	Sabinene hydrate	< LOQ	< LOQ
gamma-Terpinene	< LOQ	< LOQ	alpha-Terpinene	< LOQ	< LOQ
Terpineol	< LOQ	< LOQ	Terpinolene	< LOQ	< LOQ
B Y-Terpineol	< LOQ	< LOQ	Nerol	< LOQ	< LOQ
A-Terpineol	< LOQ	< LOQ	Borneol	< LOQ	< LOQ
Ocimene isomer II	< LOQ	< LOQ	Ocimene isomer I	< LOQ	< LOQ
Sesquiterpenes	%	mg/g	Sesquiterpenes	%	mg/g
alpha-Bisabolol	< LOQ	< LOQ	beta-Caryophyllene	1.446	14.46
Caryophyllene Oxide	0.2666	2.666	Guaiol	< LOQ	< LOQ
alpha-Humulene	0.9517	9.517	trans-Nerolidol	< LOQ	< LOQ
Valencene	0.03189	0.3189	cis-Nerolidol	< LOQ	< LOQ
Total Terpenes	3.734	37.34			

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



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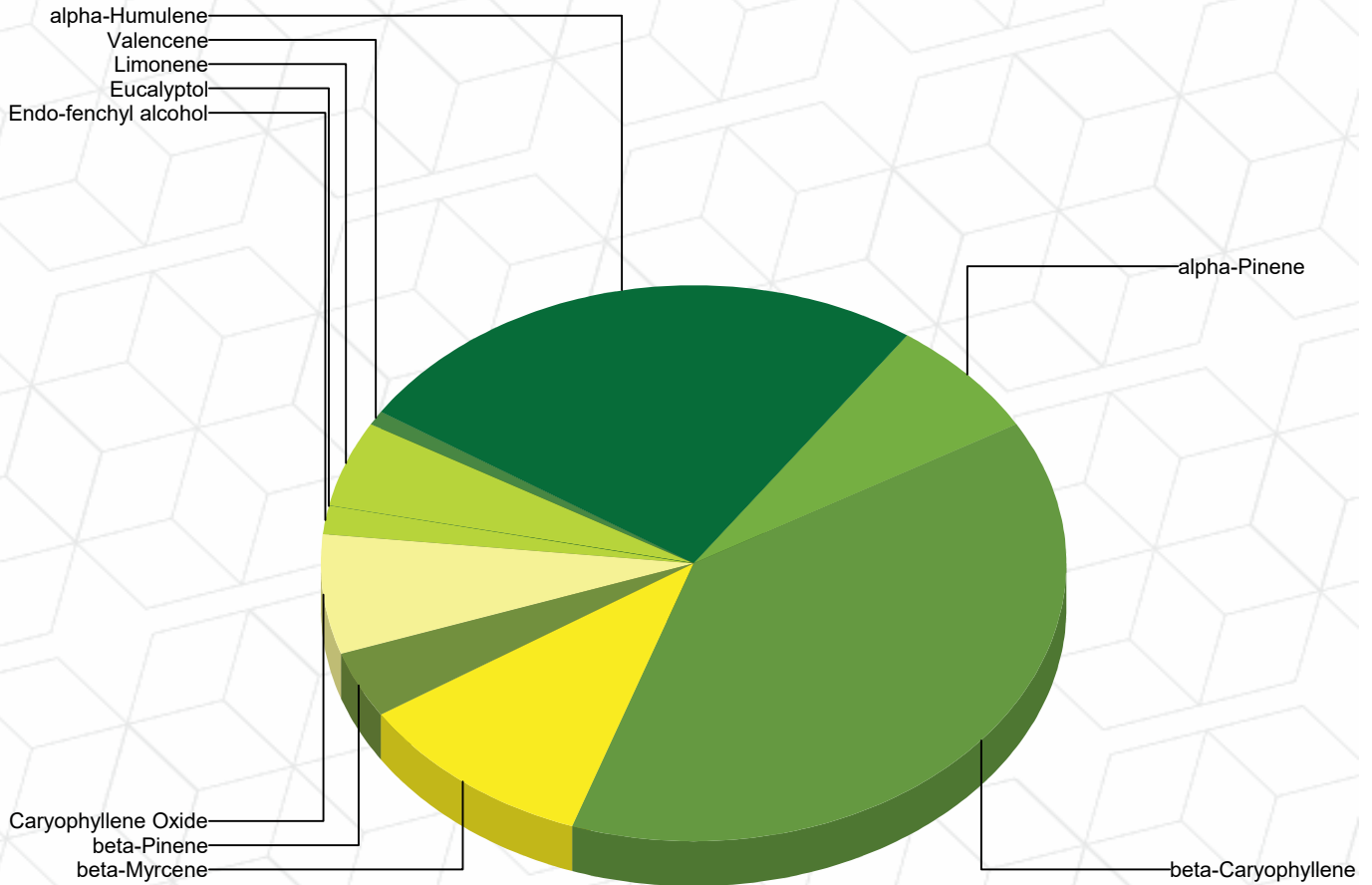
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Terpene Profile



Percentage of Total Terpenes Identified



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Quality Control Terpene Analysis

Batch: 2028045 - 215-Concentrates

Blank(2028045-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
alpha-Bisabolol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Camphene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Camphor	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
3-Carene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
beta-Caryophyllene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Caryophyllene Oxide	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
alpha-Cedrene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Cedrol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Endo-fenchyl alcohol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Eucalyptol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Fenchone	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Geraniol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Geranyl acetate	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Guaiol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Hexahydrothymol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
alpha-Humulene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Isoborneol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Isopulegol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Limonene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Linalool	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
p-Mentha-1,5-diene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
beta-Myrcene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
trans-Nerolidol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
alpha-Pinene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
beta-Pinene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Pulegone	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Sabinene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Sabinene hydrate	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
gamma-Terpinene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
alpha-Terpinene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Terpineol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Terpinolene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Valencene	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
B Y-Terpineol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Nerol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
A-Terpineol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
cis-Nerolidol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Borneol	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49



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Quality Control Terpene Analysis (Continued)

Batch: 2028045 - 215-Concentrates (Continued)

Blank(2028045-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ocimene isomer II	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49
Ocimene isomer I	< LOQ	2.500E-4	%		07/10/20 08:05	07/10/20 18:49

Reference(2028045-SRM2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
beta-Caryophyllene	95.9	1.210E-4	%	70-130	07/10/20 08:05	07/10/20 19:07
alpha-Humulene	95.6	1.210E-4	%	70-130	07/10/20 08:05	07/10/20 19:07
Limonene	96.5	1.210E-4	%	70-130	07/10/20 08:05	07/10/20 19:07
beta-Myrcene	96.1	1.210E-4	%	70-130	07/10/20 08:05	07/10/20 19:07
Terpinolene	96.7	1.210E-4	%	70-130	07/10/20 08:05	07/10/20 19:07



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