



Topical Hemp Balm

Sample ID: G9K0220-01

Matrix: Products

Test ID: 5000060

Source ID:

Date Sampled: 11/11/19

Date Accepted: 11/11/19

Citizen Kind Hemp Farm DBA Organic Green Roots

Results at a Glance

Total THC : 0.0803 %

Total CBD : 0.6243 %

Total Terpenes : 1.940 % PASS

Eric Wendt
Chief Science Officer - 12/3/2019



Topical Hemp Balm

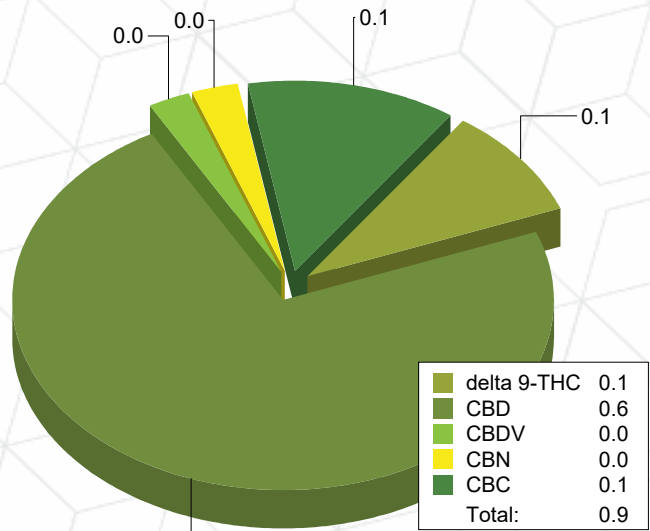
Sample ID: G9K0220-01 Matrix: Products
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Citizen Kind Hemp Farm DBA Organic Green Roots

Potency Analysis

Date/Time Extracted: 11/12/19 10:55 Analysis Method/SOP: 215 Batch Identification: 1946019

Cannabinoids	LOQ mg/g	mg/g	Cannabinoids Profile	
Total THC	0.153	0.803		
Total CBD	0.159	6.243		
THCA	0.221	< LOQ		
delta 9-THC	0.153	0.803		
delta 8-THC	0.192	< LOQ		
Exo-THC	0.11	< LOQ		
THCV	0.15	< LOQ		
THCVA	0.224	< LOQ		
CBD	0.159	6.243		
CBDA	0.22	< LOQ		
CBDV	0.154	0.21		
CBDVA	0.212	< LOQ		
CBN	0.138	0.243		
CBG	0.161	< LOQ		
CBGA	0.213	< LOQ		
CBC	0.27	1.071		



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

Total CBD = CBD + (CBDA * 0.877)

For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.

Water Activity Action Level is 0.65. Results above 0.65 fail state testing requirements and will be highlighted Red.

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Terpene Analysis

Date/Time Extracted: 11/12/19 10:55

Analysis Method/SOP: 204

Monoterpenes	%	mg/g	Monoterpenes	%	mg/g
Camphene	0.02338	0.2338	Camphor	0.01862	0.1862
3-Carene	0.01208	0.1208	alpha-Cedrene	< LOQ	< LOQ
Cedrol	< LOQ	< LOQ	Endo-fenchyl alcohol	0.007862	0.07862
Eucalyptol	0.7459	7.459	Fenchone	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ	Geranyl acetate	0.02313	0.2313
Hexahydrothymol	0.3248	3.248	Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ	Limonene	0.1230	1.23
Linalool	0.1177	1.177	p-Mentha-1,5-diene	0.03197	0.3197
beta-Myrcene	0.06129	0.6129	Ocimene	0.05704	0.5704
alpha-Pinene	0.06057	0.6057	beta-Pinene	0.03850	0.385
Pulegone	0.01183	0.1183	Sabinene	0.04663	0.4663
Sabinene hydrate	0.01773	0.1773	gamma-Terpinene	0.03271	0.3271
alpha-Terpinene	0.01228	0.1228	Terpineol	0.01525	0.1525
Terpinolene	0.006287	0.06287	B Y-Terpineol	< LOQ	< LOQ
Nerol	< LOQ	< LOQ	A-Terpineol	0.02420	0.242
Borneol	< LOQ	< LOQ	Ocimene isomer II	0.01354	0.1354
Ocimene isomer I	0.04350	0.435			
Sesquiterpenes	%	mg/g	Sesquiterpenes	%	mg/g
alpha-Bisabolol	0.01116	0.1116	beta-Caryophyllene	0.06742	0.6742
Caryophyllene Oxide	0.009975	0.09975	Guaiol	0.009137	0.09137
alpha-Humulene	0.01052	0.1052	trans-Nerolidol	< LOQ	< LOQ
Valencene	0.009901	0.09901	cis-Nerolidol	0.04256	0.4256
Total Terpenes	1.940	19.4			

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

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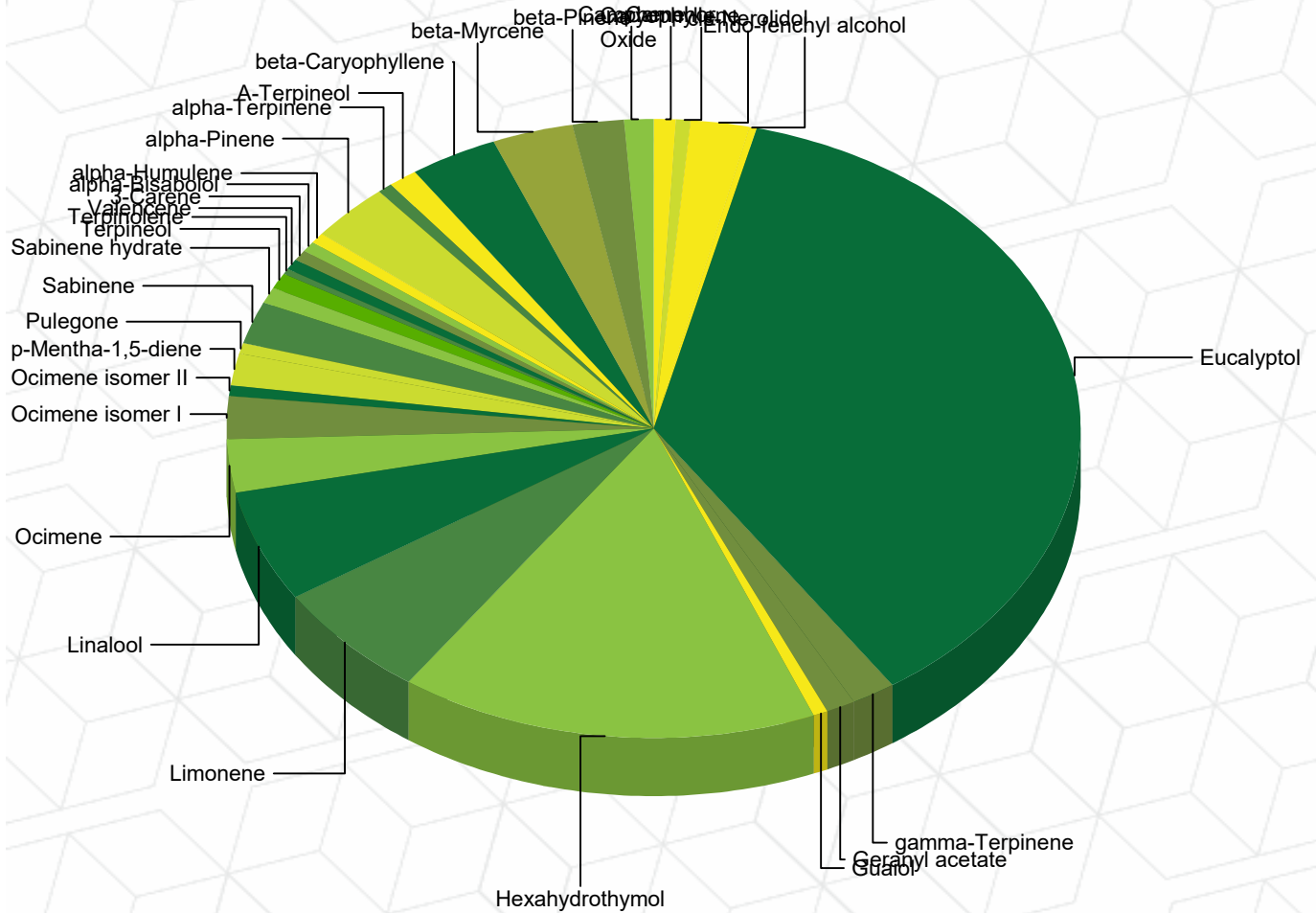


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Terpene Profile



Percentage of Total Terpenes Identified

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Quality Control Potency

Batch: 1946019 - 215-Products

Blank(1946019-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0221	%		11/12/19 10:55	11/12/19 16:47
delta 9-THC	< LOQ	0.0153	%		11/12/19 10:55	11/12/19 16:47
delta 8-THC	< LOQ	0.0192	%		11/12/19 10:55	11/12/19 16:47
Exo-THC	< LOQ	0.0110	%		11/12/19 10:55	11/12/19 16:47
THCV	< LOQ	0.0150	%		11/12/19 10:55	11/12/19 16:47
THCVA	< LOQ	0.0224	%		11/12/19 10:55	11/12/19 16:47
CBD	< LOQ	0.0159	%		11/12/19 10:55	11/12/19 16:47
CBDA	< LOQ	0.0220	%		11/12/19 10:55	11/12/19 16:47
CBDV	< LOQ	0.0154	%		11/12/19 10:55	11/12/19 16:47
CBDVA	< LOQ	0.0212	%		11/12/19 10:55	11/12/19 16:47
CBN	< LOQ	0.0138	%		11/12/19 10:55	11/12/19 16:47
CBG	< LOQ	0.0161	%		11/12/19 10:55	11/12/19 16:47
CBGA	< LOQ	0.0213	%		11/12/19 10:55	11/12/19 16:47
CBC	< LOQ	0.0270	%		11/12/19 10:55	11/12/19 16:47

Reference(1946019-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
delta 9-THC	111	0.0153	%	80-120	11/12/19 10:55	11/12/19 17:10
CBD	102	0.0159	%	80-120	11/12/19 10:55	11/12/19 17:10

Terpene Analysis

Batch: 1946019 - 215-Products

Blank(1946019-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
alpha-Bisabolol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Camphene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Camphor	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
3-Carene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
beta-Caryophyllene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Caryophyllene Oxide	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
alpha-Cedrene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Cedrol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Endo-fenchyl alcohol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Eucalyptol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Fenchone	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Geraniol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Geranyl acetate	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Guaiol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Hexahydrothymol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02

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Quality Control Terpene Analysis (Continued)

Batch: 1946019 - 215-Products (Continued)

Blank(1946019-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
alpha-Humulene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Isoborneol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Isopulegol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Limonene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Linalool	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
p-Mentha-1,5-diene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
beta-Myrcene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
trans-Nerolidol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Ocimene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
alpha-Pinene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
beta-Pinene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Pulegone	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Sabinene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Sabinene hydrate	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
gamma-Terpinene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
alpha-Terpinene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Terpineol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Terpinolene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Valencene	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
B Y-Terpineol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Nerol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
A-Terpineol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
cis-Nerolidol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Borneol	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Ocimene isomer II	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02
Ocimene isomer I	< LOQ	4.000E-4	%		11/12/19 10:55	11/12/19 20:02

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