



BLUEBERRY MUFFIN

Sample ID: G3H0317-01 Matrix: Hemp Extracts & Concentrates
Test ID: 5024192
Source ID:
Date Sampled: 08/18/23 Date Accepted: 08/18/23
Batch Lot ID: 1073025-2023-001

Octave Labs LLC
info@octave-labs.com

Results at a Glance	
Total Terpenes :	84.32 % PASS



Eric Wendt
Chief Science Officer - 9/6/2023



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Terpene Analysis by GCMS

Date/Time Extracted: 08/18/23 16:37

Analysis Method/SOP: 204

Date/Time Analyzed: 08/21/23 11:39

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.007	0.020	mg/g	(+)-Borneol	< LOQ	0.007	0.020	mg/g
3-Carene	< LOQ	0.007	0.020	mg/g	alpha-Bisabolol	2.01	0.007	0.020	mg/g
alpha-Cedrene	< LOQ	0.007	0.020	mg/g	alpha-Humulene	28.45	0.007	0.020	mg/g
Alpha-Phellandrene	< LOQ	0.007	0.020	mg/g	alpha-Pinene	77.94	0.007	0.020	mg/g
alpha-Terpinene	< LOQ	0.007	0.020	mg/g	alpha-Thujone	< LOQ	0.007	0.020	mg/g
A-Terpineol	5.33	0.007	0.020	mg/g	beta-Caryophyllene	70.65	0.007	0.020	mg/g
beta-Myrcene	329	0.007	0.020	mg/g	beta-Pinene	35.14	0.007	0.020	mg/g
Camphene	3	0.007	0.020	mg/g	Camphor	< LOQ	0.007	0.020	mg/g
Carvacrol	< LOQ	0.007	0.020	mg/g	Carvone	< LOQ	0.007	0.020	mg/g
Caryophyllene Oxide	< LOQ	0.007	0.020	mg/g	Cedrol	< LOQ	0.007	0.020	mg/g
Cis-beta-Farnesene	8.76	0.007	0.020	mg/g	Cis-beta-Ocimene	11.23	0.007	0.020	mg/g
cis-Nerolidol	5.02	0.007	0.020	mg/g	Citral	< LOQ	0.007	0.020	mg/g
Citronellol	< LOQ	0.007	0.020	mg/g	Endo-fenchyl alcohol	< LOQ	0.007	0.020	mg/g
Eucalyptol	1.95	0.007	0.020	mg/g	Farnesol 1	< LOQ	0.007	0.020	mg/g
Farnesol 2	< LOQ	0.007	0.020	mg/g	gamma-Terpinene	85.14	0.007	0.020	mg/g
Geraniol	< LOQ	0.007	0.020	mg/g	Geranyl acetate	< LOQ	0.007	0.020	mg/g
Guaiol	< LOQ	0.007	0.020	mg/g	Isoborneol	< LOQ	0.007	0.020	mg/g
Isobornyl Acetate	< LOQ	0.007	0.020	mg/g	Isopulegol	< LOQ	0.007	0.020	mg/g
Limonene	81.01	0.007	0.020	mg/g	Linalool	2.55	0.007	0.020	mg/g
Menthol	< LOQ	0.007	0.020	mg/g	Menthone	< LOQ	0.007	0.020	mg/g
Nootkatone	< LOQ	0.007	0.020	mg/g	Octyl Acetate	< LOQ	0.007	0.020	mg/g
p-Cymene	< LOQ	0.007	0.020	mg/g	Phytane	< LOQ	0.007	0.020	mg/g
Piperitone	< LOQ	0.007	0.020	mg/g	Pulegone	< LOQ	0.007	0.020	mg/g
Sabinene	< LOQ	0.007	0.020	mg/g	Sabinene hydrate	< LOQ	0.007	0.020	mg/g
Safranal	< LOQ	0.007	0.020	mg/g	Squalene	< LOQ	0.007	0.020	mg/g
Terpinen-4-ol	3.36	0.007	0.020	mg/g	Terpinolene	< LOQ	0.007	0.020	mg/g
Thymol	< LOQ	0.007	0.020	mg/g	trans-beta-Farnesene	8.95	0.007	0.020	mg/g
trans-beta-Ocimene	82.62	0.007	0.020	mg/g	trans-Nerolidol	< LOQ	0.007	0.020	mg/g
Valencene	4.42	0.007	0.020	mg/g	Verbenone	< LOQ	0.007	0.020	mg/g
Total Terpenes	843.2	0.007	0.020	mg/g					

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 - 9/6/2023

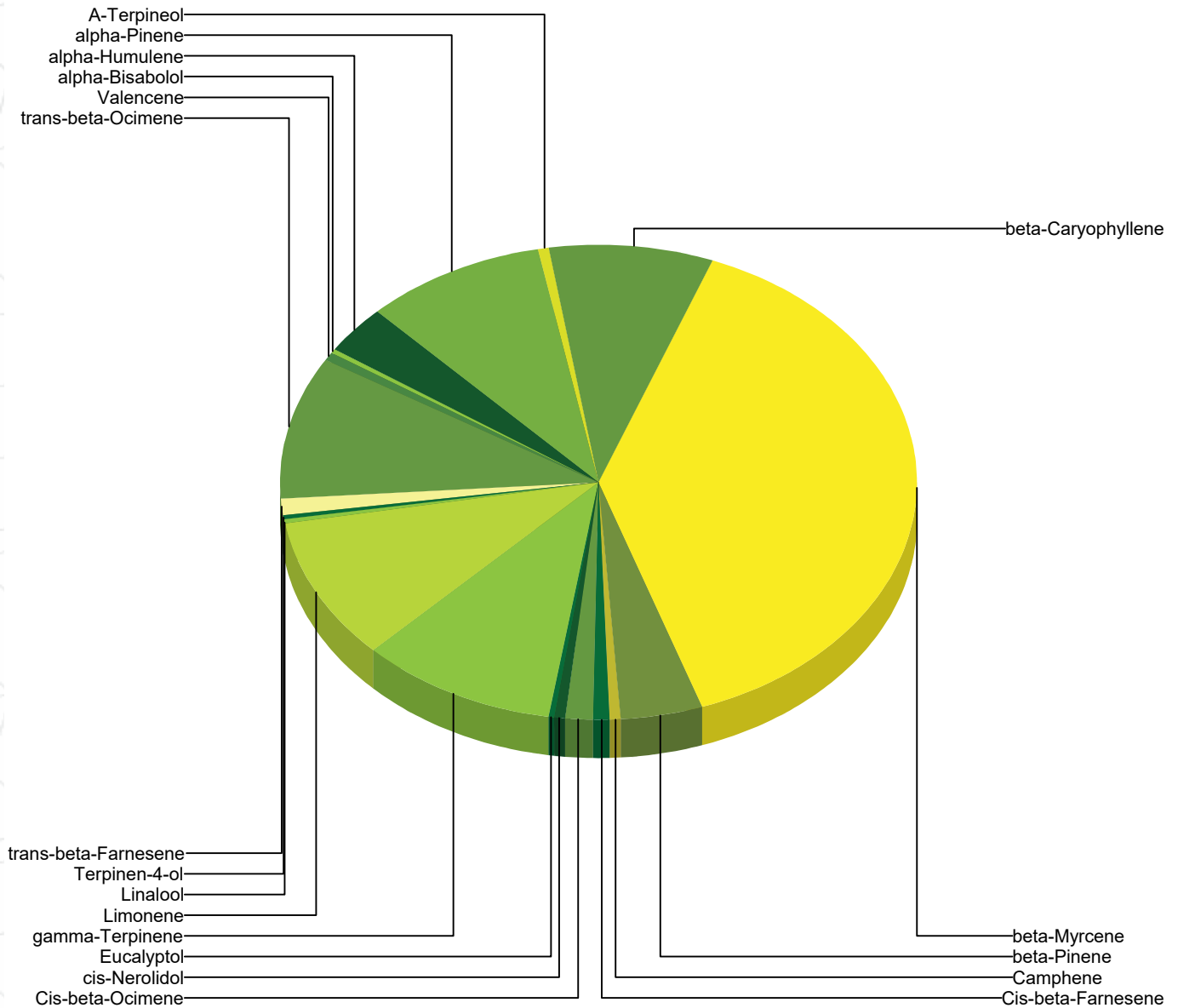


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Terpene Profile



Percentage of Total Terpenes Identified



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Quality Control Terpene Analysis

Batch: 2333086 - 215-Concentrates

Blank(2333086-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Camphene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Camphor	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
3-Carene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
beta-Caryophyllene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Caryophyllene Oxide	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
alpha-Cedrene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Cedrol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Endo-fenchyl alcohol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Eucalyptol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Geraniol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Geranyl acetate	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Guaiol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
alpha-Humulene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Isoborneol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Isopulegol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Limonene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Linalool	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
beta-Myrcene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
trans-Nerolidol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
alpha-Pinene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
beta-Pinene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Pulegone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Sabinene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Sabinene hydrate	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
gamma-Terpinene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
alpha-Terpinene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Terpinolene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Valencene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Verbenone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
trans-beta-Farnesene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
A-Terpineol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
cis-Nerolidol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Thymol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Terpinen-4-ol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Squalene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Safranal	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Piperitone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	



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Chief Science Officer - 9/6/2023

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Quality Control Terpene Analysis (Continued)

Batch: 2333086 - 215-Concentrates (Continued)

Blank(2333086-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
p-Cymene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Octyl Acetate	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Nootkatone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Menthone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Menthol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Isobornyl Acetate	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Farnesol 1	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Carvone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
alpha-Thujone	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Alpha-Phellandrene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
(+)-Borneol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
(-)-Borneol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Carvacrol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
trans-beta-Ocimene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Cis-beta-Ocimene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Citral	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Citronellol	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Farnesol 2	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	
Cis-beta-Farnesene	< LOQ	0.0001	%		08/18/23 16:37	08/21/23 11:20	

Reference(2333086-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	90.9	0.0001	%	0-130	08/18/23 16:37	08/19/23 22:24	
beta-Caryophyllene	120	0.0001	%	70-130	08/18/23 16:37	08/19/23 22:24	
Limonene	93.4	0.0001	%	70-130	08/18/23 16:37	08/19/23 22:24	
beta-Myrcene	122	0.0001	%	70-130	08/18/23 16:37	08/19/23 22:24	



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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. Results do not include uncertainty of measurements. Available upon request.

- 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.
 - 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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