

Certificate of Analysis

This sample has been tested according to OAR 333-0007.



Certificate Number: 4093 Effective Date: 9/2/2016

1 of 3

Ananda Farms

Williams, OR 97544

Sample: C06107

Strain: Blueberry Bubblegum

Batch#: 1195, 1181; Batch Size: 12169 - grams

Sample Received: 11/09/2017; Report Created: 11/16/2017; Expires: 11/16/2018

Lic. #100019879F7

Potency/ Moisture-Composite

Plant, Flower - Cured

Harvest Process Lot: ; METRC Batch: 1195, 1181; METRC Sample: 1A4010300000836000001212, 1213





14.40%

Total THC

0.15%

Total CBD

Cannabinoids

171113R1-CANN 11/13/2017

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	1.2	16.09	160.9
Δ9-ΤΗС	1.2	0.29	2.9
Δ8-ΤΗС	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBD	1.2	0.15	1.5
CBDa	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBC	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBG	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBN	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
THCV	1.2	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBGa	1.2	1.30	13.0
Total		17.83	178.3

Surrogate standard recovery (Acceptance criteria: 90 - 110%) 97.5%

Cannabinoids Method: HPLC using an Agilent 1100 with DAD. Deviations from standard method or conditions: None. Recoveries for all analytes: 90-110%. Recoveries for internal standard: 90 – 110%. Uncertainties (based upon replicate recoveries) < 5% RSD. Sample and reagent blanks: < LOQ for all analytes. Values for plant matter are adjusted for moisture content. Total THC = THCa * 0.877 + d9-THC, Total CBD = CBDa * 0.877 + CBD. Abbreviations: LOQ = Limit of Quantitation, DAD = Diode Array Detector, HPLC = High Pressure Liquid Chromatography, RSD = Relative Standard Deviation, NR = Not Reported. OG Analytical accreditation extends to the following analytes: THC, THCA, CBD, CBDA, and CBN.



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http://www.oganalytical.com OLCC Marijuana Laboratory License #: 1002766BA93

Rodger Voelker, Ph.D

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Complete

Moisture 171113R1-CANN 11/13/2017

7.6%

Moisture



Moisture Method: Loss on drying using Sartorius Mark 3. Deviations from standard method or conditions: None. Uncertainties: Not determined. NR = Not Reported



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Terpenes

11/08/2017

β-Myrcene 0.01 12.09 1.209 β-Caryophyllene 0.02 4.20 0.420 trans-Ocimene 0.01 1.88 0.188 α-Humulene 0.02 1.62 0.162 R(+)-Limonene 0.01 0.95 0.095 Guaiol 0.05 0.55 0.055 α-Bisabolol 0.05 0.53 0.053 trans-Nerolidol 0.02 0.32 0.032 Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.16 0.015 Linalool 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α-Terpineol 0.01 0.01 0.09 0.009 α-Pinene 0.01 0.08 0.008 0.008 Borneol 0.01 0.08 0.008 0.008 Camphe	Analyte	LOQ	Mass	Mass
β-Caryophyllene		mg/g	mg/g	%
trans-Ocimene	β-Myrcene	0.01	12.09	1.209
α-Humulene 0.02 1.62 0.162 R(+)-Limonene 0.01 0.95 0.095 Guaiol 0.05 0.55 0.055 α-Bisabolol 0.05 0.53 0.053 trans-Nerolidol 0.02 0.32 0.032 Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α-Terpineol 0.01 0.01 0.04 0.009 α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <0.00	β-Caryophyllene	0.02	4.20	0.420
R(+)-Limonene0.010.950.095Guaiol0.050.550.055α-Bisabolol0.050.530.053trans-Nerolidol0.020.320.032Caryophyllene Oxide0.050.280.028β-Pinene0.010.160.016Fenchol0.010.160.016cis-Ocimene0.010.150.015Linalool0.010.140.014α-Terpineol0.010.090.009α-Pinene0.010.080.008Borneol0.010.080.008Camphene0.010.070.007Eucalyptol0.010.070.007Terpinolene0.010.040.004Fenchone0.010.030.0033-Carene0.01 <loq< td=""><loq< td="">α-Phellandrene0.01<loq< td=""><loq< td="">α-Terpinene0.01<loq< td=""><loq< td="">cis-Nerolidol0.02<loq< td=""><loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	trans-Ocimene	0.01	1.88	0.188
Guaiol 0.05 0.55 0.055 α-Bisabolol 0.05 0.53 0.053 trans-Nerolidol 0.02 0.32 0.032 Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α-Terpineol 0.01 0.09 0.009 α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""> <td>α-Humulene</td><td>0.02</td><td>1.62</td><td>0.162</td></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	α-Humulene	0.02	1.62	0.162
α-Bisabolol 0.05 0.53 0.053 trans-Nerolidol 0.02 0.32 0.032 Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α-Terpineol 0.01 0.09 0.009 α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	R(+)-Limonene	0.01	0.95	0.095
trans-Nerolidol 0.02 0.32 0.032 Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.15 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α -Terpineol 0.01 0.09 0.009 α -Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Guaiol	0.05	0.55	0.055
Caryophyllene Oxide 0.05 0.28 0.028 β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α -Terpineol 0.01 0.09 0.009 α -Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01	α-Bisabolol	0.05	0.53	0.053
β-Pinene 0.01 0.16 0.016 Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α -Terpineol 0.01 0.09 0.009 α -Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.04 0.004 3-Carene 0.01 0.03 0.003 3-Carene 0.01 0.01 0.00 0.000 α -Phellandrene 0.01 0.01 0.000 0.000 α -Terpinene 0.01 0.000 0.000 0.000 cis-Nerolidol 0.000 0.000 0.000 0.000	trans-Nerolidol	0.02	0.32	0.032
Fenchol 0.01 0.16 0.016 cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α-Terpineol 0.01 0.09 0.009 α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Caryophyllene Oxide	0.05	0.28	0.028
cis-Ocimene 0.01 0.15 0.015 Linalool 0.01 0.14 0.014 α -Terpineol 0.01 0.09 0.009 α -Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 0.003 0.003 3-Carene 0.01 0.003 0.003 0.003 0.003 0.003 0.003 3-Carene 0.01 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.004 0.004 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 <td>β-Pinene</td> <td>0.01</td> <td>0.16</td> <td>0.016</td>	β-Pinene	0.01	0.16	0.016
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Fenchol	0.01	0.16	0.016
α-Terpineol 0.01 0.09 0.009 α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	cis-Ocimene	0.01	0.15	0.015
α-Pinene 0.01 0.08 0.008 Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Linalool	0.01	0.14	0.014
Borneol 0.01 0.08 0.008 Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 < LOQ	α-Terpineol	0.01	0.09	0.009
Camphene 0.01 0.07 0.007 Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	α-Pinene	0.01	0.08	0.008
Eucalyptol 0.01 0.07 0.007 Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Borneol	0.01	0.08	0.008
Terpinolene 0.01 0.04 0.004 Fenchone 0.01 0.03 0.003 3-Carene 0.01 <loq< td=""> <loq< td=""> α-Phellandrene 0.01 <loq< td=""> <loq< td=""> α-Terpinene 0.01 <loq< td=""> <loq< td=""> cis-Nerolidol 0.02 <loq< td=""> <loq< td=""></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Camphene	0.01	0.07	0.007
Fenchone 0.01 0.03 0.003 3-Carene 0.01 1 CLOQ 1 CLOQ α-Phellandrene 0.01 1 CLOQ 1 CLOQ α-Terpinene 0.01 1 CLOQ 1 CLOQ cis-Nerolidol 0.02 1 CLOQ 1 CLOQ	Eucalyptol	0.01	0.07	0.007
3-Carene 0.01 <loq <loq="" <math="">\alpha-Phellandrene 0.01 <loq <loq="" <math="">\alpha-Terpinene 0.01 <loq 0.02="" <loq="" <loq<="" cis-nerolidol="" td=""><td>Terpinolene</td><td>0.01</td><td>0.04</td><td>0.004</td></loq></loq></loq>	Terpinolene	0.01	0.04	0.004
α -Phellandrene 0.01 <loq <loq="" <math="">\alpha-Terpinene 0.01 <loq 0.02="" <loq="" <loq<="" cis-nerolidol="" td=""><td>Fenchone</td><td>0.01</td><td>0.03</td><td>0.003</td></loq></loq>	Fenchone	0.01	0.03	0.003
α-Terpinene 0.01 <loq 0.02="" <loq="" <loq<="" cis-nerolidol="" td=""><td>3-Carene</td><td>0.01</td><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq>	3-Carene	0.01	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
cis-Nerolidol 0.02 <loq <loq<="" td=""><td>α-Phellandrene</td><td>0.01</td><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq>	α-Phellandrene	0.01	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
	α-Terpinene	0.01	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
y-Terpinene 0.01 <loq <loq<="" td=""><td>cis-Nerolidol</td><td>0.02</td><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq>	cis-Nerolidol	0.02	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
	γ-Terpinene	0.01	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>

0.01

Primary Aromas



Hops









Terpenes Method: Static-headspace using a PerkinElmer HS40/Agilent 6890 GC/Agilent 5973 Mass Spectrometer. QA/QC: Deviations from standard method or conditions: None. Recoveries for internal standard: 80-110%. Uncertainties: Not determined. Reagent blanks: < LOQ for all analytes. Abbreviations: LOQ = Limit of Quantitation, ND = None Detected; NR = Not Reported

<LOQ

<LOQ



Isoborneol

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