IRON LABORATORIES

ORELAP Cert No. 4092-002
OLCC No. 1002158CD2E

BATCH ID #

Marijuana Potency Analysis by High Performance Liquid Chromatography

Testing Accreditation #: 4092

Test Certificate #: 98205-001

Client Name, Sample Details	Test Conditions	Sample ID#: 98205
Willamette Valley Alchemy **Sample:** Banana Kush (YB) **Type:** Undiluted **Method:** FE04C-OR4 HPLC1100-OR1 **Batch #:** 98205 **Harvest Lot #:** WVA BHE 196 **Metrc #:** 1A4010300003909000005108	**Scale:** XS205-OR1 **Temp:** 21.8 °C **Baro Pressure:** 1004 hPa **Analyst:** HRM **Technician:** HRM	**Process Lot Weight (g):** 849 **Date Received:** 09/21/2017 **Test Date:** 09/26/2017 **Valid Through:** 09/28/2018 **Process Date:** 09/19/2017

77.34% THC
100

Test Compounds	CBDA	CBD	CBC	CBG	CBN	THC	THCA	THCV		Calc. Avg	Act.
Avg. Amount	1.39 mg/g	N/D	1.77 mg/g	5.64 mg/g	3.37 mg/g	53.08 mg/g	821.33 mg/g	N/D	**CBD**	N/A	0%
LOQ	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	**THC**	773.4 mg/g	6 mg/g
Amount per Serving~	0.07 mg/srv	N/D	0.09 mg/srv	0.28 mg/srv	0.17 mg/srv	2.65 mg/srv	41.07 mg/srv	N/D	**Serving Size~ (g):**	3.192g	-
Uncertainty†	1.34% RPD	2.01% RPD	8.00% RPD	2.10% RPD	3.69% RPD	8.57% RPD	3.18% RPD	1.69% RPD			

77.34 %

LOQ = Limit of Quantitation

RPD is relative percent difference between LCS and LCS duplicate.

%RPD = Relative Percent Difference; Min. Value = Minimum Detectable Amount, CFU = Colony Forming Units, N/D = Not Detected

*** Designated tests that use the method FE-45.

SOP FE-01-OR9 was used in accordance with OAR 333-007 for sampling. All marijuana items are sampled and tested in accordance with OAR 333-007-0300 to 333-007-490 and OAR 333-064-0100 to 333-064-0110.

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Joseph Rutkowski, Quality Manager

Himashi Mead, Technical Manager

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Tested by Iron Laboratories Oregon, 71 Cenntenial Loop Suite D Eugene, OR 97401

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QC Report

Testing Accreditation #: 4092

Test Certificate #: 98205-001

Client Name, Sample Details

Willamette Valley Alchemy
Sample: Banana Kush (YB)
Type: Undiluted
Method: FE04C-OR4 HPLC1100-OR1
Batch #: 98205
Harvest Lot #: WVA BHE 196
Metrc #: 1A4010300003909000005108

Test Conditions

Scale: XS205-OR1
Temp: 21.8 °C
Baro Pressure: 1004 hPa
Analyst: HRM
Technician: HRM

Sample ID#: 98205

Process Lot Weight (g): 849
Date Received: 09/21/2017
Test Date: 09/26/2017
Valid Through: 09/28/2018
Process Date: 09/19/2017

Target Compound Name	Method Blank (µg/g)	LCS Spike (µg/g)	LCS Amount (µg/g)	Percent Recovery (%) LCS	LCS Duplicate Amount (µg/g)	Percent Recovery (%) LCSD	Relative Percent Difference (%)	QC Flag
Cannabivarin (CBDV)	N.D.	5	5.49	109.8	5.64	112.8	2.70%	
Cannabiolic acid (CBDA)	N.D.	5	5.20	104	5.27	105.4	1.34%	
Cannabigerol (CBG)	N.D.	5	5.18	103.6	5.29	105.8	2.10%	
Cannabidiol (CBD)	N.D.	5	5.41	108.2	5.52	110.4	2.01%	
Δ9-Tetrahydrocannibivarin (THCV)	N.D.	5	5.27	105.4	5.36	107.2	1.69%	
Cannabinol (CBN)	N.D.	5	5.06	101.2	5.25	105	3.69%	
Δ9-Tetrahydrocannabinol (THC)	N.D.	5	5.14	102.8	5.60	112	8.57%	
Cannabichromene (CBC)	N.D.	5	5.28	105.6	5.72	114.4	8.00%	
Tetrahydrocannabinolic acid (THCA)	N.D.	5	4.95	99	5.11	102.2	3.18%	

N.D. = Not Detected

LR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) Low recovery should be scrutinized for possible fail as it could indicate more compound present than is detected.

I = indicates that an amount of an interfering compound greater than the methods limit of detection was detected in the method blank sample. May indicate contamination of analytical system or consumables.

Q = indicates that the relative percent diference of two identicly prepared Matrix Spike samples for a target analyte was greater than 20%

HR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) high recoveries should be scrutinized for passing as more compound may be detected than is actually present in the sample.

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