

Sample Name: **Jack Fruit LLR (Bula-957A) Primary**
 Tested for: **Willamette Valley Alchemy**
Compliance Extract

Laboratory ID: 21B0190-03

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300003909000014121

Lot # NA

Batch RFID: 1A4010300003909000014116

Batch Size: 820 (g)

Process Date: 2/22/2021

License: 1000096CBB6

Date Sampled: 02/23/21 00:00

Date Accepted: 02/23/21



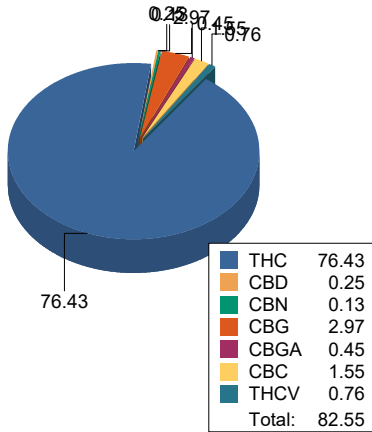
Potency Analysis

Date Extracted: 02/26/21

Date Analyzed: 02/27/21

Analysis Method: UNODC 5.4.8

* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	LOQ (%)	Cannabinoids Profile																
Total THC ((THCA*0.877)+d9)	76.43	764.3	0.07	 <table border="1"> <tr><td>THC</td><td>76.43</td></tr> <tr><td>CBD</td><td>0.25</td></tr> <tr><td>CBN</td><td>0.13</td></tr> <tr><td>CBG</td><td>2.97</td></tr> <tr><td>CBGA</td><td>0.45</td></tr> <tr><td>CBC</td><td>1.55</td></tr> <tr><td>THCV</td><td>0.76</td></tr> <tr><td>Total:</td><td>82.55</td></tr> </table>	THC	76.43	CBD	0.25	CBN	0.13	CBG	2.97	CBGA	0.45	CBC	1.55	THCV	0.76	Total:	82.55
THC	76.43																			
CBD	0.25																			
CBN	0.13																			
CBG	2.97																			
CBGA	0.45																			
CBC	1.55																			
THCV	0.76																			
Total:	82.55																			
Total CBD ((CBDA*0.877)+CBD)	0.25	2.5	0.07																	
d9-THC (d9-Tetrahydrocannabinol)*	76.43	764.3	0.07																	
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ	0.10																	
THCA (d9-Tetrahydrocannabinolic Acid)*	< LOQ	< LOQ	0.15																	
CBD (Cannabidiol)*	0.25	2.5	0.07																	
CBDA (Cannabidiolic Acid)*	< LOQ	< LOQ	0.15																	
CBN (Cannabinol)*	0.13	1.3	0.07																	
CBG (Cannabigerol)*	2.97	29.7	0.10																	
CBGA (Cannabigerolic Acid)	0.45	4.5	0.10																	
CBDV (Cannabidivarin)*	< LOQ	< LOQ	0.10																	
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ	0.10																	
CBC (Cannabichromene)*	1.55	15.5	0.10																	
THCV (Tetrahydrocannabivarin)	0.76	7.6	0.10																	
Total Cannabinoids	82.55	825.5	0.07																	

<LOQ - Results below the Limit of Quantitation - Compound not detected


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Sample Name: **Jack Fruit LLR (Bula-957A) Duplicate**
 Tested for: **Willamette Valley Alchemy**
Compliance Extract

Laboratory ID: 21B0190-04

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300003909000014121

Process Date: 2/22/2021

Lot # NA

License: 1000096CBB6

Batch RFID: 1A4010300003909000014116

Date Sampled: 02/23/21 00:00

Batch Size: 820 (g)

Date Accepted: 02/23/21

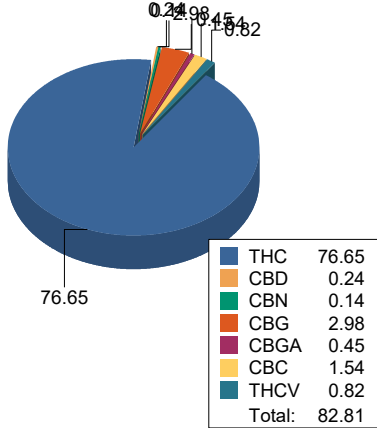
Potency Analysis

Date Extracted: 02/26/21

Analysis Method: UNODC 5.4.8

Date Analyzed: 02/27/21

* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	LOQ (%)	Cannabinoids Profile
Total THC ((THCA*0.877)+d9)	76.65	766.5	0.08	
Total CBD ((CBDA*0.877)+CBD)	0.24	2.4	0.08	
d9-THC (d9-Tetrahydrocannabinol)*	76.65	766.5	0.08	
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ	0.11	
THCA (d9-Tetrahydrocannabinolic Acid)*	< LOQ	< LOQ	0.17	
CBD (Cannabidiol)*	0.24	2.4	0.08	
CBDA (Cannabidiolic Acid)*	< LOQ	< LOQ	0.17	
CBN (Cannabinol)*	0.14	1.4	0.08	
CBG (Cannabigerol)*	2.98	29.8	0.11	
CBGA (Cannabigerolic Acid)	0.45	4.5	0.11	
CBDV (Cannabidivarin)*	< LOQ	< LOQ	0.11	
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ	0.11	
CBC (Cannabichromene)*	1.54	15.4	0.11	
THCV (Tetrahydrocannabivarin)	0.82	8.2	0.11	
Total Cannabinoids	82.81	828.1	0.08	

<LOQ - Results below the Limit of Quantitation - Compound not detected

Sample Name: **Jack Fruit LLR (Bula-957A)**

Sample Metrc ID: 1A4010300003909000014121

	Primary Result %	Duplicate Result %	Average %	% RPD	Pass/Fail (<15%RPD)
Total THC ((THCA*0.877)+d9)	76.43	76.65	76.54	0.287	PASS
Total CBD ((CBDA*0.877)+CBD)	0.25	0.24	0.25	NA	PASS


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Sample Name: Jack Fruit LLR (Bula-957A) Primary	License: 100096CBB6
Tested for: Willamette Valley Alchemy Compliance Extract	Date Sampled: 02/23/21 00:00
	Date Accepted: 02/23/21
Laboratory ID: 21B0190-03	Sample Metrc ID: 1A4010300003909000014121
Matrix: Extracts and Concentrates	Batch RFID: 1A4010300003909000014116
Lot # NA	Batch Size: 820 (g)

Terpene Analysis

Date Extracted: 02/26/21

Analysis Method: Terpenes by GC/FID

Date Analyzed: 02/26/21

Analyte	Result (%)	LOQ	Analyte	Result	LOQ
alpha Pinene	0.220	0.090	beta Myrcene	3.369	0.090
alpha Phellandrene	< LOQ	0.090	3-Carene	< LOQ	0.090
alpha Terpinene	< LOQ	0.090	Limonene	0.194	0.090
Terpinolene	< LOQ	0.090	Linalool	0.121	0.090
Fenchol	< LOQ	0.090	Borneol	< LOQ	0.090
Terpineol	< LOQ	0.090	Geraniol	< LOQ	0.090
alpha Humulene	0.218	0.090	beta Caryophyllene	0.575	0.090
(-)-Caryophyllene Oxide	< LOQ	0.090	(-)-alpha Bisabolol	0.146	0.090
Camphene	< LOQ	0.090	beta Pinene	< LOQ	0.090
Ocimene	0.670	0.090	Sabinene	< LOQ	0.090
Camphor	< LOQ	0.090	Isoborneol	< LOQ	0.090
Menthol	< LOQ	0.090	alpha Cedrene	< LOQ	0.090
Nerolidol	< LOQ	0.090	(+)-Pulegone	< LOQ	0.090
Eucalyptol	< LOQ	0.090	p-Cymene	< LOQ	0.090
(-)-Isopulegol	< LOQ	0.090	Geranyl Acetate	< LOQ	0.090
Guaiol	0.262	0.090	Valencene	< LOQ	0.090
Phytol	< LOQ	0.090	Citronellol	< LOQ	0.090
gamma Terpinene	< LOQ	0.090			
Total Terpenes				5.774 %	

<LOQ - Results below the Limit of Quantitation - Compound not detected

Terpene Analysis is not ORELAP Accredited.

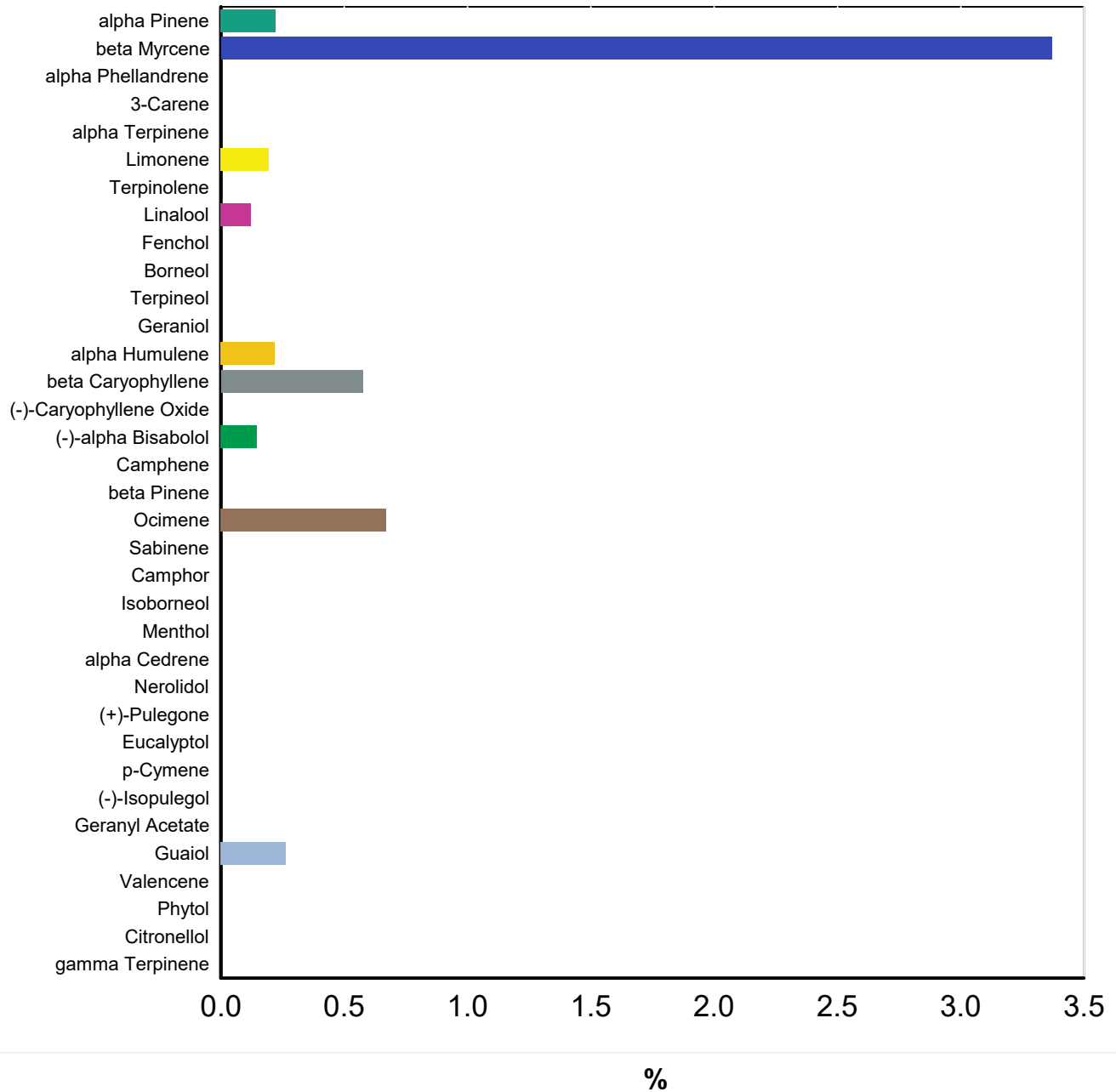


Breeanna Hamilton For Brian Weigel
Lab Director

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Sample Name: **Jack Fruit LLR (Bula-957A) Primary** License: **1000096CBB6**
 Tested for: **Willamette Valley Alchemy** Date Sampled: **02/23/21 00:00**
Compliance Extract Date Accepted: **02/23/21 15:32**
 Laboratory ID: **21B0190-03** Matrix: **Extracts and** Client/Metric ID: **1A4010300003909000014121**

Terpene Profile



Breeanna Hamilton
 Breeanna Hamilton For Brian Weigel
 Lab Director

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Sample Name: **Jack Fruit LLR (Bula-957A) Primary** License: **100096CBB6**
 Tested for: **Willamette Valley Alchemy** Date Sampled: **02/23/21 00:00**
Compliance Extract Date Accepted: **02/23/21**

Laboratory ID: **21B0190-03** Sample Metrc ID: **1A4010300003909000014121**
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300003909000014116**
 Lot # **NA** Batch Size: **820 (g)**

Pesticide Analysis in ppm

Date Extracted: 02/26/21 Analysis Method: AOAC 2007.01 & EN 15662
 Date Analyzed: 03/02/21 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.248	Acephate	< LOQ	0.4	0.199
Acequinocyl	< LOQ	2	0.993	Acetamiprid	< LOQ	0.2	0.099
Aldicarb	< LOQ	0.4	0.199	Azoxystrobin	< LOQ	0.2	0.099
Bifenazate	< LOQ	0.2	0.099	Bifenthrin	< LOQ	0.2	0.099
Boscalid	< LOQ	0.4	0.199	Carbaryl	< LOQ	0.2	0.099
Carbofuran	< LOQ	0.2	0.099	Chlorantraniliprole	< LOQ	0.2	0.099
Chlorfenapyr	< LOQ	1	0.496	Chlorpyrifos	< LOQ	0.2	0.099
Clofentezine	< LOQ	0.2	0.099	Cyfluthrin	< LOQ	1	0.496
Cypermethrin	< LOQ	1	0.496	Daminozide	< LOQ	1	0.496
DDVP (Dichlorvos)	< LOQ	1	0.496	Diazinon	< LOQ	0.2	0.099
Dimethoate	< LOQ	0.2	0.099	Ethoprophos	< LOQ	0.2	0.099
Etofenprox	< LOQ	0.4	0.199	Etoxazole	< LOQ	0.2	0.099
Fenoxycarb	< LOQ	0.2	0.099	Fenpyroximate	< LOQ	0.4	0.199
Fipronil	< LOQ	0.4	0.199	Fonicamid	< LOQ	1	0.496
Fludioxonil	< LOQ	0.4	0.199	Hexythiazox	< LOQ	1	0.496
Imazalil	< LOQ	0.2	0.099	Imidacloprid	< LOQ	0.4	0.199
Kresoxim-methyl	< LOQ	0.4	0.199	Malathion	< LOQ	0.2	0.099
Metalaxyl	< LOQ	0.2	0.099	Methiocarb	< LOQ	0.2	0.099
Methomyl	< LOQ	0.4	0.199	Methyl parathion	< LOQ	0.2	0.099
MGK-264	< LOQ	0.2	0.099	Myclobutanil	< LOQ	0.2	0.099
Naled	< LOQ	0.5	0.248	Oxamyl	< LOQ	1	0.496
Paclobutrazol	< LOQ	0.4	0.199	Permethrins (total)	< LOQ	0.2	0.099
Phosmet	< LOQ	0.2	0.099	Piperonyl butoxide	< LOQ	2	0.496
Prallethrin	< LOQ	0.2	0.099	Propiconazole	< LOQ	0.4	0.199
Propoxur	< LOQ	0.2	0.099	Pyrethrins (total)	< LOQ	1	0.496
Pyridaben	< LOQ	0.2	0.099	Spinosad	< LOQ	0.2	0.099
Spiromesifen	< LOQ	0.2	0.099	Spirotetramat	< LOQ	0.2	0.099
Spiroxamine	< LOQ	0.4	0.199	Tebuconazole	< LOQ	0.4	0.199
Thiacloprid	< LOQ	0.2	0.099	Thiamethoxam	< LOQ	0.2	0.099
Trifloxystrobin	< LOQ	0.2	0.099				

<LOQ - Results below the Limit of Quantitation - Compound not detected


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Sample Name: **Jack Fruit LLR (Bula-957A) Duplicate** License: **100096CBB6**
 Tested for: **Willamette Valley Alchemy** Date Sampled: **02/23/21 00:00**
Compliance Extract Date Accepted: **02/23/21**

Laboratory ID: **21B0190-04** Sample Metrc ID: **1A4010300003909000014121**
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300003909000014116**
 Lot # **NA** Batch Size: **820 (g)**

Pesticide Analysis in ppm

Date Extracted: 02/26/21 Analysis Method: AOAC 2007.01 & EN 15662
 Date Analyzed: 03/02/21 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.249	Acephate	< LOQ	0.4	0.199
Acequinocyl	< LOQ	2	0.997	Acetamiprid	< LOQ	0.2	0.100
Aldicarb	< LOQ	0.4	0.199	Azoxystrobin	< LOQ	0.2	0.100
Bifenazate	< LOQ	0.2	0.100	Bifenthrin	< LOQ	0.2	0.100
Boscalid	< LOQ	0.4	0.199	Carbaryl	< LOQ	0.2	0.100
Carbofuran	< LOQ	0.2	0.100	Chlorantraniliprole	< LOQ	0.2	0.100
Chlorfenapyr	< LOQ	1	0.498	Chlorpyrifos	< LOQ	0.2	0.100
Clofentezine	< LOQ	0.2	0.100	Cyfluthrin	< LOQ	1	0.498
Cypermethrin	< LOQ	1	0.498	Daminozide	< LOQ	1	0.498
DDVP (Dichlorvos)	< LOQ	1	0.498	Diazinon	< LOQ	0.2	0.100
Dimethoate	< LOQ	0.2	0.100	Ethoprophos	< LOQ	0.2	0.100
Etofenprox	< LOQ	0.4	0.199	Etoxazole	< LOQ	0.2	0.100
Fenoxycarb	< LOQ	0.2	0.100	Fenpyroximate	< LOQ	0.4	0.199
Fipronil	< LOQ	0.4	0.199	Fonicamid	< LOQ	1	0.498
Fludioxonil	< LOQ	0.4	0.199	Hexythiazox	< LOQ	1	0.498
Imazalil	< LOQ	0.2	0.100	Imidacloprid	< LOQ	0.4	0.199
Kresoxim-methyl	< LOQ	0.4	0.199	Malathion	< LOQ	0.2	0.100
Metalaxyl	< LOQ	0.2	0.100	Methiocarb	< LOQ	0.2	0.100
Methomyl	< LOQ	0.4	0.199	Methyl parathion	< LOQ	0.2	0.100
MGK-264	< LOQ	0.2	0.100	Myclobutanil	< LOQ	0.2	0.100
Naled	< LOQ	0.5	0.249	Oxamyl	< LOQ	1	0.498
Paclobutrazol	< LOQ	0.4	0.199	Permethrins (total)	< LOQ	0.2	0.100
Phosmet	< LOQ	0.2	0.100	Piperonyl butoxide	< LOQ	2	0.498
Prallethrin	< LOQ	0.2	0.100	Propiconazole	< LOQ	0.4	0.199
Propoxur	< LOQ	0.2	0.100	Pyrethrins (total)	< LOQ	1	0.498
Pyridaben	< LOQ	0.2	0.100	Spinosad	< LOQ	0.2	0.100
Spiromesifen	< LOQ	0.2	0.100	Spirotetramat	< LOQ	0.2	0.100
Spiroxamine	< LOQ	0.4	0.199	Tebuconazole	< LOQ	0.4	0.199
Thiacloprid	< LOQ	0.2	0.100	Thiamethoxam	< LOQ	0.2	0.100
Trifloxystrobin	< LOQ	0.2	0.100				

<LOQ - Results below the Limit of Quantitation - Compound not detected


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Sample Name: Jack Fruit LLR (Bula-957A) Primary	License: 100096CBB6
Tested for: Willamette Valley Alchemy	Date Sampled: 02/23/21 00:00
Compliance Extract	Date Accepted: 02/23/21
Laboratory ID: 21B0190-03	Sample Metric ID: 1A4010300003909000014121
Matrix: Extracts and Concentrates	Batch RFID: 1A4010300003909000014116
Lot # NA	Batch Size: 820 (g)

Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ
1,4-Dioxane	< LOQ	380	191
2-Butanol	< LOQ	5000	2510
2-Ethoxyethanol	< LOQ	160	80.4
2-Propanol (IPA)	< LOQ	5000	2510
Acetone	< LOQ	5000	2510
Acetonitrile	< LOQ	400	206
Benzene	< LOQ	2	1.01
Butanes	< LOQ	5000	2510
Cyclohexane	< LOQ	3880	1950
Dichloromethane (methylene chloride)	< LOQ	600	302
Ethyl acetate	< LOQ	5000	2510
Ethyl ether	< LOQ	5000	2510
Ethylbenzene	< LOQ	2170	1090
Ethylene glycol	< LOQ	620	312
Ethylene oxide	< LOQ	50	25.1
Heptane	< LOQ	5000	2510
Hexanes	< LOQ	290	146
Isopropyl acetate	< LOQ	5000	2510
Isopropylbenzene (cumene)	< LOQ	70	35.2
Methanol	< LOQ	3000	1510
Pentanes	< LOQ	5000	2510
Propane	< LOQ	5000	2510
Tetrahydrofuran	< LOQ	720	362
Toluene	< LOQ	890	447
Xylenes	< LOQ	2170	1090

Date Extracted: 02/26/21
Date Analyzed: 02/27/21
Analysis Method: USP 467

<LOQ - Results below the Limit of Quantitation - Compound not detected
Results above the Action Level fail state testing requirements and will be highlighted **Red #**.


Breeanna Hamilton For Brian Weigel
Lab Director

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Sample Name: Jack Fruit LLR (Bula-957A) Duplicate	License: 100096CBB6
Tested for: Willamette Valley Alchemy	Date Sampled: 02/23/21 00:00
Compliance Extract	Date Accepted: 02/23/21
Laboratory ID: 21B0190-04	Sample Metric ID: 1A4010300003909000014121
Matrix: Extracts and Concentrates	Batch RFID: 1A4010300003909000014116
Lot # NA	Batch Size: 820 (g)

Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ
1,4-Dioxane	< LOQ	380	192
2-Butanol	< LOQ	5000	2530
2-Ethoxyethanol	< LOQ	160	80.9
2-Propanol (IPA)	< LOQ	5000	2530
Acetone	< LOQ	5000	2530
Acetonitrile	< LOQ	400	207
Benzene	< LOQ	2	1.01
Butanes	< LOQ	5000	2530
Cyclohexane	< LOQ	3880	1960
Dichloromethane (methylene chloride)	< LOQ	600	303
Ethyl acetate	< LOQ	5000	2530
Ethyl ether	< LOQ	5000	2530
Ethylbenzene	< LOQ	2170	1100
Ethylene glycol	< LOQ	620	314
Ethylene oxide	< LOQ	50	25.3
Heptane	< LOQ	5000	2530
Hexanes	< LOQ	290	147
Isopropyl acetate	< LOQ	5000	2530
Isopropylbenzene (cumene)	< LOQ	70	35.4
Methanol	< LOQ	3000	1520
Pentanes	< LOQ	5000	2530
Propane	< LOQ	5000	2530
Tetrahydrofuran	< LOQ	720	364
Toluene	< LOQ	890	450
Xylenes	< LOQ	2170	1100

Date Extracted: 02/26/21
Date Analyzed: 02/27/21
Analysis Method: USP 467

<LOQ - Results below the Limit of Quantitation - Compound not detected
Results above the Action Level fail state testing requirements and will be highlighted **Red #**.



Breeanna Hamilton For Brian Weigel
Lab Director

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Case Narrative

Residual Solvent - Isopropylbenzene was above normally accepted recovery criteria in the Matrix Spike and Matrix Spike Duplicate due to pinene coelution. Analyte was below the reporting limit in all client samples.

Pesticides - Daminozide recovered above the upper acceptance limit in the Blank Spike. Analytes were below the reporting limit in all client samples.

**Quality Control
Potency**

Batch: B210582 - Potency/Terpenes

Blank(B210582-BLK1)		Extracted - 02/26/21 14:49 Analyzed - 02/26/21 21:06						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
d9-THC (d9-Tetrahydrocannabinol)	< LOQ	%						
d8-THC (d8-Tetrahydrocannabinol)	< LOQ	%						
THCA (d9-Tetrahydrocannabinolic Acid)	< LOQ	%						
CBD (Cannabidiol)	< LOQ	%						
CBDA (Cannabidiolic Acid)	< LOQ	%						
CBN (Cannabinol)	< LOQ	%						
CBG (Cannabigerol)	< LOQ	%						
CBGA (Cannabigerolic Acid)	< LOQ	%						
CBDV (Cannabidivarin)	< LOQ	%						
CBDVA (Cannabidivarinic Acid)	< LOQ	%						
CBC (Cannabichromene)	< LOQ	%						
THCV (Tetrahydrocannabivarin)	< LOQ	%						

Duplicate(B210582-DUP1)		Extracted - 02/26/21 14:49 Analyzed - 02/26/21 21:15						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
d9-THC (d9-Tetrahydrocannabinol)	80.78	%		80.47			0.394	20
d8-THC (d8-Tetrahydrocannabinol)	< LOQ	%		< LOQ				20
THCA (d9-Tetrahydrocannabinolic Acid)	< LOQ	%		< LOQ				20
CBD (Cannabidiol)	0.32	%		0.27			16.7	20
CBDA (Cannabidiolic Acid)	0.05	%		0.05			0.812	20
CBN (Cannabinol)	0.14	%		0.14			1.24	20
CBG (Cannabigerol)	1.85	%		1.79			3.54	20
CBGA (Cannabigerolic Acid)	0.05	%		0.05			3.37	20
CBDV (Cannabidivarin)	< LOQ	%		< LOQ				20
CBDVA (Cannabidivarinic Acid)	< LOQ	%		< LOQ				20
CBC (Cannabichromene)	1.57	%		1.54			2.02	20
THCV (Tetrahydrocannabivarin)	0.87	%		0.84			3.54	20


Breeanna Hamilton For Brian Weigel
Lab Director

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**Quality Control
 Potency (Continued)**

Batch: B210582 - Potency/Terpenes (Continued)

LCS(B210582-BS1)		Extracted - 02/26/21 14:49 Analyzed - 02/26/21 20:57						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
d9-THC (d9-Tetrahydrocannabinol)	0.24	%	0.200		118	80-120		
CBD (Cannabidiol)	0.21	%	0.200		106	80-120		
CBDA (Cannabidiolic Acid)	0.18	%	0.200		92.3	80-120		
CBN (Cannabinol)	0.20	%	0.200		98.9	80-120		


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Quality Control Pesticide Analysis

Batch: B210584 - Pesticide Prep

Blank(B210584-BLK1)		Extracted - 02/26/21 16:08 Analyzed - 03/01/21 17:56						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	< LOQ	ppm						
Acephate	< LOQ	ppm						
Acequinocyl	< LOQ	ppm						
Acetamiprid	< LOQ	ppm						
Aldicarb	< LOQ	ppm						
Azoxystrobin	< LOQ	ppm						
Bifenazate	< LOQ	ppm						
Bifenthrin	< LOQ	ppm						
Boscalid	< LOQ	ppm						
Carbaryl	< LOQ	ppm						
Carbofuran	< LOQ	ppm						
Chlorantraniliprole	< LOQ	ppm						
Chlorfenapyr	< LOQ	ppm						
Chlorpyrifos	< LOQ	ppm						
Clofentezine	< LOQ	ppm						
Cyfluthrin	< LOQ	ppm						
Cypermethrin	< LOQ	ppm						
Daminozide	< LOQ	ppm						
DDVP (Dichlorvos)	< LOQ	ppm						
Diazinon	< LOQ	ppm						
Dimethoate	< LOQ	ppm						
Ethoprophos	< LOQ	ppm						
Etofenprox	< LOQ	ppm						
Etoxazole	< LOQ	ppm						
Fenoxycarb	< LOQ	ppm						
Fenpyroximate	< LOQ	ppm						
Fipronil	< LOQ	ppm						
Fonicamid	< LOQ	ppm						
Fludioxonil	< LOQ	ppm						
Hexythiazox	< LOQ	ppm						
Imazalil	< LOQ	ppm						
Imidacloprid	< LOQ	ppm						
Kresoxim-methyl	< LOQ	ppm						
Malathion	< LOQ	ppm						
Metalaxyl	< LOQ	ppm						


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control

Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

Blank(B210584-BLK1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21 17:56					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methiocarb	< LOQ	ppm						
Methomyl	< LOQ	ppm						
Methyl parathion	< LOQ	ppm						
MGK-264	< LOQ	ppm						
Myclobutanil	< LOQ	ppm						
Naled	< LOQ	ppm						
Oxamyl	< LOQ	ppm						
Paclbutrazol	< LOQ	ppm						
Permethrins (total)	< LOQ	ppm						
Phosmet	< LOQ	ppm						
Piperonyl butoxide	< LOQ	ppm						
Prallethrin	< LOQ	ppm						
Propiconazole	< LOQ	ppm						
Propoxur	< LOQ	ppm						
Pyrethrins (total)	< LOQ	ppm						
Pyridaben	< LOQ	ppm						
Spinosad	< LOQ	ppm						
Spiromesifen	< LOQ	ppm						
Spirotetramat	< LOQ	ppm						
Spiroxamine	< LOQ	ppm						
Tebuconazole	< LOQ	ppm						
Thiacloprid	< LOQ	ppm						
Thiamethoxam	< LOQ	ppm						
Trifloxystrobin	< LOQ	ppm						

LCS(B210584-BS1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:12					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	0.71	ppm	0.980		72.6	15-180		
Acephate	1.08	ppm	1.00		108	51-141		
Acequinocyl	0.38	ppm	1.00		38.3	16.9-111		
Acetamiprid	1.11	ppm	1.00		111	50-150		
Aldicarb	1.07	ppm	1.00		107	49-146		
Azoxystrobin	1.03	ppm	1.00		103	52-136		
Bifenazate	1.05	ppm	1.00		105	41-133		
Bifenthrin	0.67	ppm	1.00		67.2	22-130		


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Quality Control

Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

LCS(B210584-BS1)		Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:12						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Boscalid	0.98	ppm	1.00		98.4	29-144		
Carbaryl	1.04	ppm	1.00		104	61-127		
Carbofuran	1.05	ppm	1.00		105	62-136		
Chlorantraniliprole	1.06	ppm	1.00		106	41-150		
Chlorfenapyr	0.91	ppm	1.00		91.3	40-160		
Chlorpyrifos	0.95	ppm	1.00		94.9	29-124		
Clofentezine	1.01	ppm	1.00		101	40-127		
Cyfluthrin	0.73	ppm	1.00		72.7	55-165		
Cypermethrin	0.81	ppm	1.00		80.7	21-144		
Daminozide	1.46	ppm	1.00		146	15-145		
DDVP (Dichlorvos)	1.07	ppm	1.00		107	55-150		
Diazinon	1.05	ppm	1.00		105	43-127		
Dimethoate	1.06	ppm	1.00		106	62-136		
Ethoprophos	0.99	ppm	1.00		99.4	45-142		
Etofenprox	0.91	ppm	1.00		90.6	24-113		
Etoxazole	1.01	ppm	1.00		101	34-121		
Fenoxycarb	0.99	ppm	1.00		98.9	22-150		
Fenpyroximate	0.80	ppm	1.00		79.8	34-144		
Fipronil	0.96	ppm	1.00		95.9	25-149		
Flonicamid	1.18	ppm	1.00		118	53-144		
Fludioxonil	0.97	ppm	1.00		97.0	29-132		
Hexythiazox	0.90	ppm	1.00		90.0	22-111		
Imazalil	1.04	ppm	1.00		104	48-125		
Imidacloprid	1.08	ppm	1.00		108	41-150		
Kresoxim-methyl	1.03	ppm	1.00		103	43-140		
Malathion	1.01	ppm	1.00		101	25-148		
Metalaxyl	1.11	ppm	1.00		111	50-136		
Methiocarb	0.98	ppm	1.00		98.3	56-132		
Methomyl	1.07	ppm	1.00		107	40-150		
Methyl parathion	0.75	ppm	1.00		74.6	35-160		
MGK-264	0.56	ppm	0.590		95.6	32-134		
Myclobutanil	1.08	ppm	1.00		108	43-141		
Naled	0.95	ppm	1.00		94.7	15-136		
Oxamyl	1.05	ppm	1.00		105	56-133		
Paclobutrazol	0.94	ppm	1.00		93.8	34-143		


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

LCS(B210584-BS1)		Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:12						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Permethrins (total)	0.77	ppm	1.00		77.2	31-113		
Phosmet	1.06	ppm	1.00		106	53-124		
Piperonyl butoxide	0.97	ppm	1.00		97.4	39-128		
Prallethrin	0.99	ppm	1.00		99.4	43-140		
Propiconazole	0.98	ppm	1.00		98.3	47-124		
Propoxur	1.06	ppm	1.00		106	63-135		
Pyrethrins (total)	0.52	ppm	0.580		90.2	19-144		
Pyridaben	0.88	ppm	1.00		88.0	31-122		
Spinosad	0.75	ppm	0.710		105	24-147		
Spiromesifen	0.86	ppm	1.00		85.5	49-133		
Spirotetramat	1.00	ppm	1.00		100	29-150		
Spiroxamine	1.07	ppm	1.00		107	15-122		
Tebuconazole	0.99	ppm	1.00		99.5	40-133		
Thiacloprid	1.08	ppm	1.00		108	60-143		
Thiamethoxam	1.09	ppm	1.00		109	42-146		
Trifloxystrobin	1.03	ppm	1.00		103	41-148		

Matrix Spike(B210584-MS1)		Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:28						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	1.05	ppm	0.977	< LOQ	107	55-190		
Acephate	1.05	ppm	0.997	< LOQ	105	48-131		
Acequinocyl	0.19	ppm	0.997	< LOQ	19.5	15-119		
Acetamiprid	1.09	ppm	0.997	< LOQ	109	50-145		
Aldicarb	1.05	ppm	0.997	< LOQ	105	53-133		
Azoxystrobin	0.90	ppm	0.997	< LOQ	89.9	35-147		
Bifenazate	0.90	ppm	0.997	< LOQ	90.4	43-143		
Bifenthrin	0.31	ppm	0.997	< LOQ	31.5	16-107		
Boscalid	0.80	ppm	0.997	< LOQ	80.5	42-140		
Carbaryl	0.98	ppm	0.997	< LOQ	98.2	71-113		
Carbofuran	1.00	ppm	0.997	< LOQ	101	73-118		
Chlorantraniliprole	0.93	ppm	0.997	< LOQ	92.9	45-136		
Chlorfenapyr	0.41	ppm	0.997	< LOQ	40.7	40-190		
Chlorpyrifos	0.92	ppm	0.997	< LOQ	92.3	24-125		
Clofentezine	0.60	ppm	0.997	< LOQ	60.3	38-118		
Cyfluthrin	0.70	ppm	0.997	< LOQ	69.9	35-170		


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Lab Director

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Quality Control

Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

Matrix Spike(B210584-MS1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:28					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Cypermethrin	0.73	ppm	0.997	< LOQ	73.5	38-150		
Daminozide	1.34	ppm	0.997	< LOQ	134	16-160		
DDVP (Dichlorvos)	1.01	ppm	0.997	< LOQ	101	64-124		
Diazinon	1.05	ppm	0.997	< LOQ	105	50-123		
Dimethoate	1.01	ppm	0.997	< LOQ	102	69-116		
Ethoprophos	0.82	ppm	0.997	< LOQ	82.2	39-146		
Etofenprox	0.49	ppm	0.997	< LOQ	49.2	31-117		
Etoxazole	0.67	ppm	0.997	< LOQ	66.9	35-136		
Fenoxycarb	0.81	ppm	0.997	< LOQ	81.7	23-150		
Fenpyroximate	0.97	ppm	0.997	< LOQ	97.5	30-143		
Fipronil	0.78	ppm	0.997	< LOQ	78.4	15-150		
Flonicamid	0.99	ppm	0.997	< LOQ	98.9	50-131		
Fludioxonil	0.97	ppm	0.997	< LOQ	97.7	44-150		
Hexythiazox	1.07	ppm	0.997	< LOQ	107	34-144		
Imazalil	0.59	ppm	0.997	< LOQ	58.9	54-124		
Imidacloprid	1.12	ppm	0.997	< LOQ	112	39-150		
Kresoxim-methyl	1.14	ppm	0.997	< LOQ	114	46-134		
Malathion	0.90	ppm	0.997	< LOQ	90.1	26-148		
Metalaxyl	1.02	ppm	0.997	< LOQ	102	60-127		
Methiocarb	0.90	ppm	0.997	< LOQ	90.5	50-131		
Methomyl	1.00	ppm	0.997	< LOQ	100	47-135		
Methyl parathion	0.67	ppm	0.997	< LOQ	66.8	33.5-156		
MGK-264	0.32	ppm	0.588	< LOQ	54.8	20-130		
Myclobutanil	0.91	ppm	0.997	< LOQ	91.1	43-134		
Naled	0.85	ppm	0.997	< LOQ	85.2	38-140		
Oxamyl	1.01	ppm	0.997	< LOQ	101	48-127		
Paclobutrazol	0.74	ppm	0.997	< LOQ	74.4	30-136		
Permethrins (total)	0.50	ppm	0.997	< LOQ	50.1	20-120		
Phosmet	0.92	ppm	0.997	< LOQ	92.1	51-134		
Piperonyl butoxide	0.57	ppm	0.997	< LOQ	57.7	36-134		
Prallethrin	0.81	ppm	0.997	< LOQ	80.9	23-149		
Propiconazole	0.84	ppm	0.997	< LOQ	84.6	45-133		
Propoxur	1.00	ppm	0.997	< LOQ	101	59-130		
Pyrethrins (total)	0.49	ppm	0.578	0.12	64.6	15-146		
Pyridaben	0.41	ppm	0.997	< LOQ	41.6	15-150		


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Quality Control

Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

Matrix Spike(B210584-MS1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21 18:28					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Spinosad	0.49	ppm	0.708	< LOQ	68.6	23-150		
Spiromesifen	0.64	ppm	0.997	< LOQ	64.7	27-127		
Spirotetramat	1.09	ppm	0.997	< LOQ	109	33-150		
Spiroxamine	0.63	ppm	0.997	< LOQ	63.2	54-134		
Tebuconazole	0.94	ppm	0.997	< LOQ	94.7	22-126		
Thiacloprid	1.01	ppm	0.997	< LOQ	102	53-138		
Thiamethoxam	1.05	ppm	0.997	< LOQ	106	40-134		
Trifloxystrobin	0.85	ppm	0.997	< LOQ	85.2	25-140		

Matrix Spike Dup(B210584-MSD1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	1.15	ppm	0.979	< LOQ	117	55-190	8.81	40
Acephate	0.96	ppm	0.999	< LOQ	95.8	48-131	9.02	26
Acequinocyl	0.19	ppm	0.999	< LOQ	19.2	15-119	1.20	50
Acetamiprid	1.09	ppm	0.999	< LOQ	109	50-145	0.00266	30
Aldicarb	0.96	ppm	0.999	< LOQ	96.1	53-133	8.74	30
Azoxystrobin	0.93	ppm	0.999	< LOQ	93.3	35-147	3.68	29
Bifenazate	0.95	ppm	0.999	< LOQ	95.4	43-143	5.42	30
Bifenthrin	0.29	ppm	0.999	< LOQ	29.5	16-107	6.60	29
Boscalid	0.75	ppm	0.999	< LOQ	75.0	42-140	6.97	30
Carbaryl	0.97	ppm	0.999	< LOQ	97.2	71-113	1.11	20
Carbofuran	1.00	ppm	0.999	< LOQ	99.6	73-118	0.969	20
Chlorantraniliprole	0.92	ppm	0.999	< LOQ	92.4	45-136	0.517	30
Chlorfenapyr	0.44	ppm	0.999	< LOQ	43.8	40-190	7.18	50
Chlorpyrifos	0.92	ppm	0.999	< LOQ	91.9	24-125	0.399	29
Clofentezine	0.63	ppm	0.999	< LOQ	62.7	38-118	3.89	26
Cyfluthrin	0.80	ppm	0.999	< LOQ	79.8	35-170	13.2	50
Cypermethrin	0.73	ppm	0.999	< LOQ	72.9	38-150	0.909	30
Daminozide	1.42	ppm	0.999	< LOQ	143	16-160	5.94	26
DDVP (Dichlorvos)	1.03	ppm	0.999	< LOQ	103	64-124	2.07	27
Diazinon	1.00	ppm	0.999	< LOQ	100	50-123	4.71	20
Dimethoate	0.96	ppm	0.999	< LOQ	96.6	69-116	5.05	20
Ethoprophos	0.84	ppm	0.999	< LOQ	84.1	39-146	2.20	30
Etofenprox	0.48	ppm	0.999	< LOQ	47.7	31-117	3.06	27
Etoxazole	0.66	ppm	0.999	< LOQ	65.8	35-136	1.60	30


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Quality Control Pesticide Analysis (Continued)

Batch: B210584 - Pesticide Prep (Continued)

Matrix Spike Dup(B210584-MSD1)			Extracted - 02/26/21 16:08 Analyzed - 03/01/21					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Fenoxycarb	0.85	ppm	0.999	< LOQ	85.4	23-150	4.39	40
Fenpyroximate	1.04	ppm	0.999	< LOQ	104	30-143	6.45	26
Fipronil	0.77	ppm	0.999	< LOQ	77.1	15-150	1.65	30
Flonicamid	1.00	ppm	0.999	< LOQ	100	50-131	1.17	26
Fludioxonil	1.03	ppm	0.999	< LOQ	103	44-150	4.95	30
Hexythiazox	1.09	ppm	0.999	< LOQ	109	34-144	1.79	28
Imazalil	0.65	ppm	0.999	< LOQ	65.0	54-124	9.99	24
Imidacloprid	1.12	ppm	0.999	< LOQ	112	39-150	0.405	30
Kresoxim-methyl	1.01	ppm	0.999	< LOQ	101	46-134	12.4	20
Malathion	0.90	ppm	0.999	< LOQ	90.5	26-148	0.471	50
Metalaxyl	1.04	ppm	0.999	< LOQ	104	60-127	1.11	30
Methiocarb	0.90	ppm	0.999	< LOQ	89.9	50-131	0.599	30
Methomyl	0.90	ppm	0.999	< LOQ	90.3	47-135	10.1	20
Methyl parathion	0.66	ppm	0.999	< LOQ	65.6	33.5-156	1.76	50
MGK-264	0.34	ppm	0.590	< LOQ	56.9	20-130	3.73	30
Myclobutanil	0.90	ppm	0.999	< LOQ	89.7	43-134	1.55	30
Naled	0.88	ppm	0.999	< LOQ	87.7	38-140	2.84	30
Oxamyl	0.95	ppm	0.999	< LOQ	95.1	48-127	6.47	28
Paclobutrazol	0.75	ppm	0.999	< LOQ	75.0	30-136	0.708	30
Permethrins (total)	0.47	ppm	0.999	< LOQ	46.6	20-120	7.26	28
Phosmet	0.95	ppm	0.999	< LOQ	95.4	51-134	3.50	30
Piperonyl butoxide	0.61	ppm	0.999	< LOQ	60.8	36-134	5.24	30
Prallethrin	0.88	ppm	0.999	< LOQ	88.0	23-149	8.45	30
Propiconazole	0.82	ppm	0.999	< LOQ	81.8	45-133	3.36	30
Propoxur	0.99	ppm	0.999	< LOQ	99.1	59-130	1.66	29
Pyrethrins (total)	0.51	ppm	0.580	0.12	67.6	15-146	4.41	28
Pyridaben	0.40	ppm	0.999	< LOQ	40.2	15-150	3.57	29
Spinosad	0.45	ppm	0.709	< LOQ	63.3	23-150	7.97	30
Spiromesifen	0.66	ppm	0.999	< LOQ	65.7	27-127	1.60	28
Spirotetramat	1.12	ppm	0.999	< LOQ	112	33-150	2.87	30
Spiroxamine	0.66	ppm	0.999	< LOQ	66.5	54-134	5.10	30
Tebuconazole	0.94	ppm	0.999	< LOQ	94.3	22-126	0.502	21
Thiacloprid	1.03	ppm	0.999	< LOQ	103	53-138	1.39	30
Thiamethoxam	1.01	ppm	0.999	< LOQ	101	40-134	4.35	28
Trifloxystrobin	0.84	ppm	0.999	< LOQ	83.8	25-140	1.73	30


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Quality Control Solvent Analysis

Batch: B210581 - Residual Solvent Prep

Blank(B210581-BLK1)			Extracted - 02/26/21 9:03 Analyzed - 02/26/21 20:11					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	< LOQ	ug/g						
2-Butanol	< LOQ	ug/g						
2-Ethoxyethanol	< LOQ	ug/g						
2-Propanol (IPA)	< LOQ	ug/g						
Acetone	< LOQ	ug/g						
Acetonitrile	< LOQ	ug/g						
Benzene	< LOQ	ug/g						
Butanes	< LOQ	ug/g						
Cyclohexane	< LOQ	ug/g						
Dichloromethane (methylene chloride)	< LOQ	ug/g						
Ethyl acetate	< LOQ	ug/g						
Ethyl ether	< LOQ	ug/g						
Ethylbenzene	< LOQ	ug/g						
Ethylene glycol	< LOQ	ug/g						
Ethylene oxide	< LOQ	ug/g						
Heptane	< LOQ	ug/g						
Hexanes	< LOQ	ug/g						
Isopropyl acetate	< LOQ	ug/g						
Isopropylbenzene (cumene)	< LOQ	ug/g						
Methanol	< LOQ	ug/g						
Pentanes	< LOQ	ug/g						
Propane	< LOQ	ug/g						
Tetrahydrofuran	< LOQ	ug/g						
Toluene	< LOQ	ug/g						
Xylenes	< LOQ	ug/g						

LCS(B210581-BS1)			Extracted - 02/26/21 9:03 Analyzed - 02/26/21 19:07					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	595	ug/g	570		104	70-130		
2,2-Dimethylbutane	503	ug/g	435		116	70-130		
2,2-Dimethylpropane (neopentane)	3960	ug/g	3120		127	60-140		
2-Butanol	3990	ug/g	3500		114	70-130		
2-Ethoxyethanol	259	ug/g	240		108	60-140		
2-Methylbutane (isopentane)	4160	ug/g	3500		119	70-130		
2-Methylpentane/2,3-Dimethylbutane	996	ug/g	870		114	70-130		


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control Solvent Analysis (Continued)

Batch: B210581 - Residual Solvent Prep (Continued)

LCS(B210581-BS1)		Extracted - 02/26/21 9:03 Analyzed - 02/26/21 19:07						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Methylpropane (isobutane)	3270	ug/g	3120		105	60-140		
2-Propanol (IPA)	4140	ug/g	3500		118	70-130		
3-Methylpentane	459	ug/g	435		106	70-130		
Acetone	4340	ug/g	3500		124	70-130		
Acetonitrile	670	ug/g	615		109	70-130		
Benzene	2.93	ug/g	3.00		97.6	70-130		
Cyclohexane	7070	ug/g	5820		121	70-130		
Dichloromethane (methylene chloride)	992	ug/g	900		110	70-130		
Ethyl acetate	4150	ug/g	3500		118	70-130		
Ethyl ether	4220	ug/g	3500		121	70-130		
Ethylbenzene	3410	ug/g	3250		105	70-130		
Ethylene glycol	890	ug/g	930		95.7	60-140		
Ethylene oxide	483	ug/g	375		129	60-140		
Heptane	4060	ug/g	3500		116	70-130		
Isopropyl acetate	4240	ug/g	3500		121	70-130		
Isopropylbenzene (cumene)	112	ug/g	105		107	70-130		
m,p-Xylene	7110	ug/g	6510		109	60-140		
Methanol	2890	ug/g	2500		116	70-130		
n-Butane	3410	ug/g	3120		109	60-140		
n-Hexane	470	ug/g	435		108	70-130		
n-Pentane	4250	ug/g	3500		121	70-130		
Propane	1230	ug/g	1250		98.6	60-140		
Tetrahydrofuran	1280	ug/g	1080		119	70-130		
Toluene	1340	ug/g	1340		100	70-130		
o-Xylene	3400	ug/g	3250		105	70-130		

Matrix Spike(B210581-MS1)		Extracted - 02/26/21 9:03 Analyzed - 02/26/21 19:28						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	529	ug/g	540	< LOQ	98.1	70-130		
2,2-Dimethylbutane	421	ug/g	412	< LOQ	102	70-130		
2,2-Dimethylpropane (neopentane)	3420	ug/g	2960	< LOQ	116	60-140		
2-Butanol	3550	ug/g	3310	< LOQ	107	70-130		
2-Ethoxyethanol	221	ug/g	227	< LOQ	97.1	60-140		
2-Methylbutane (isopentane)	3550	ug/g	3310	< LOQ	107	70-130		
2-Methylpentane/2,3-Dimethylbutane	850	ug/g	824	< LOQ	103	70-130		


 Breeanna Hamilton For Brian Weigel
 Lab Director

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Quality Control Solvent Analysis (Continued)

Batch: B210581 - Residual Solvent Prep (Continued)

Matrix Spike(B210581-MS1)			Extracted - 02/26/21 9:03 Analyzed - 02/26/21 19:28					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Methylpropane (isobutane)	2790	ug/g	2960	< LOQ	94.4	60-140		
2-Propanol (IPA)	3660	ug/g	3310	< LOQ	110	70-130		
3-Methylpentane	390	ug/g	412	< LOQ	94.6	70-130		
Acetone	3740	ug/g	3310	42.3	112	70-130		
Acetonitrile	579	ug/g	582	< LOQ	99.4	70-130		
Benzene	2.34	ug/g	2.84	< LOQ	82.6	70-130		
Cyclohexane	6360	ug/g	5510	< LOQ	115	70-130		
Dichloromethane (methylene chloride)	877	ug/g	852	< LOQ	103	70-130		
Ethyl acetate	3610	ug/g	3310	< LOQ	109	70-130		
Ethyl ether	3590	ug/g	3310	< LOQ	108	70-130		
Ethylbenzene	3160	ug/g	3080	< LOQ	103	70-130		
Ethylene glycol	786	ug/g	880	< LOQ	89.3	60-140		
Ethylene oxide	382	ug/g	355	< LOQ	108	60-140		
Heptane	3650	ug/g	3310	< LOQ	110	70-130		
Isopropyl acetate	3720	ug/g	3310	< LOQ	112	70-130		
Isopropylbenzene (cumene)	157	ug/g	99.4	< LOQ	158	70-130		
m,p-Xylene	6610	ug/g	6170	< LOQ	107	60-140		
Methanol	2400	ug/g	2370	29.7	100	70-130		
n-Butane	2910	ug/g	2960	< LOQ	98.5	60-140		
n-Hexane	402	ug/g	412	< LOQ	97.6	70-130		
n-Pentane	3650	ug/g	3310	< LOQ	110	70-130		
Propane	1040	ug/g	1180	< LOQ	87.5	60-140		
Tetrahydrofuran	1120	ug/g	1020	< LOQ	109	70-130		
Toluene	1230	ug/g	1270	< LOQ	97.3	70-130		
o-Xylene	3180	ug/g	3080	< LOQ	103	70-130		

Matrix Spike Dup(B210581-MSD1)			Extracted - 02/26/21 9:03 Analyzed - 02/26/21					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	531	ug/g	528	< LOQ	101	70-130	0.330	30
2,2-Dimethylbutane	421	ug/g	403	< LOQ	104	70-130	0.0320	30
2,2-Dimethylpropane (neopentane)	3450	ug/g	2900	< LOQ	119	60-140	0.852	30
2-Butanol	3600	ug/g	3240	< LOQ	111	70-130	1.26	30
2-Ethoxyethanol	225	ug/g	222	< LOQ	101	60-140	2.15	30
2-Methylbutane (isopentane)	3630	ug/g	3240	< LOQ	112	70-130	2.38	30
2-Methylpentane/2,3-Dimethylbutane	866	ug/g	806	< LOQ	107	70-130	1.91	30


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control

Solvent Analysis (Continued)

Batch: B210581 - Residual Solvent Prep (Continued)

Matrix Spike Dup(B210581-MSD1)			Extracted - 02/26/21 9:03 Analyzed - 02/26/21					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Methylpropane (isobutane)	2820	ug/g	2900	< LOQ	97.2	60-140	0.866	30
2-Propanol (IPA)	3700	ug/g	3240	< LOQ	114	70-130	1.27	30
3-Methylpentane	395	ug/g	403	< LOQ	98.0	70-130	1.39	30
Acetone	3840	ug/g	3240	42.3	117	70-130	2.51	30
Acetonitrile	594	ug/g	570	< LOQ	104	70-130	2.64	30
Benzene	2.49	ug/g	2.78	< LOQ	89.6	70-130	6.11	30
Cyclohexane	6440	ug/g	5400	< LOQ	119	70-130	1.40	30
Dichloromethane (methylene chloride)	890	ug/g	834	< LOQ	107	70-130	1.55	30
Ethyl acetate	3680	ug/g	3240	< LOQ	113	70-130	1.92	30
Ethyl ether	3680	ug/g	3240	< LOQ	114	70-130	2.44	30
Ethylbenzene	3260	ug/g	3010	< LOQ	108	70-130	3.12	30
Ethylene glycol	775	ug/g	862	< LOQ	89.9	60-140	1.40	30
Ethylene oxide	384	ug/g	348	< LOQ	111	60-140	0.728	30
Heptane	3700	ug/g	3240	< LOQ	114	70-130	1.30	30
Isopropyl acetate	3780	ug/g	3240	< LOQ	116	70-130	1.44	30
Isopropylbenzene (cumene)	159	ug/g	97.3	< LOQ	164	70-130	1.58	30
m,p-Xylene	6850	ug/g	6040	< LOQ	113	60-140	3.53	30
Methanol	2480	ug/g	2320	29.7	106	70-130	3.23	30
n-Butane	2970	ug/g	2900	< LOQ	102	60-140	1.82	30
n-Hexane	409	ug/g	403	< LOQ	101	70-130	1.65	30
n-Pentane	3740	ug/g	3240	< LOQ	115	70-130	2.47	30
Propane	1040	ug/g	1160	< LOQ	90.1	60-140	0.817	30
Tetrahydrofuran	1130	ug/g	1000	< LOQ	113	70-130	1.69	30
Toluene	1220	ug/g	1240	< LOQ	98.7	70-130	0.661	30
o-Xylene	3200	ug/g	3010	< LOQ	106	70-130	0.709	30


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control Terpene Analysis

Batch: B210583 - Potency/Terpenes

Blank(B210583-BLK1)			Extracted - 02/26/21 14:49 Analyzed - 02/26/21 21:35					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
alpha Pinene	< LOQ	%						
beta Myrcene	< LOQ	%						
alpha Phellandrene	< LOQ	%						
3-Carene	< LOQ	%						
alpha Terpinene	< LOQ	%						
Limonene	< LOQ	%						
Terpinolene	< LOQ	%						
Linalool	< LOQ	%						
Fenchol	< LOQ	%						
Borneol	< LOQ	%						
Terpineol	< LOQ	%						
Geraniol	< LOQ	%						
alpha Humulene	< LOQ	%						
beta Caryophyllene	< LOQ	%						
(-)-Caryophyllene Oxide	< LOQ	%						
(-)-alpha Bisabolol	< LOQ	%						
Camphene	< LOQ	%						
beta Pinene	< LOQ	%						
Ocimene	< LOQ	%						
Sabinene	< LOQ	%						
Camphor	< LOQ	%						
Isoborneol	< LOQ	%						
Menthol	< LOQ	%						
alpha Cedrene	< LOQ	%						
Nerolidol	< LOQ	%						
(+)-Pulegone	< LOQ	%						
Eucalyptol	< LOQ	%						
p-Cymene	< LOQ	%						
(-)-Isopulegol	< LOQ	%						
Geranyl Acetate	< LOQ	%						
Guaiol	< LOQ	%						
Valencene	< LOQ	%						
Phytol	< LOQ	%						
Citronellol	< LOQ	%						
gamma Terpinene	< LOQ	%						


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control

Terpene Analysis (Continued)

Batch: B210583 - Potency/Terpenes (Continued)

Duplicate(B210583-DUP1)		Extracted - 02/26/21 14:49 Analyzed - 02/26/21 21:52						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
alpha Ocimene	< LOQ	%		< LOQ				30
beta Ocimene	< LOQ	%		< LOQ				30
cis-Nerolidol	< LOQ	%		< LOQ				30
Phytol 1	< LOQ	%		< LOQ				30
Phytol 2	< LOQ	%		0.114				30
trans-Nerolidol	0.093	%		0.093				30
alpha Pinene	0.585	%		0.585			0.135	30
beta Myrcene	0.444	%		0.439			1.14	30
alpha Phellandrene	< LOQ	%		< LOQ				30
3-Carene	< LOQ	%		< LOQ				30
alpha Terpinene	< LOQ	%		< LOQ				30
Limonene	1.103	%		1.105			0.171	30
Terpinolene	< LOQ	%		< LOQ				30
Linalool	0.815	%		0.820			0.576	30
Fenchol	0.341	%		0.350			2.63	30
Borneol	0.094	%		< LOQ				30
Terpineol	0.401	%		0.401			0.122	30
Geraniol	< LOQ	%		< LOQ				30
alpha Humulene	0.313	%		0.243			25.2	30
beta Caryophyllene	0.750	%		0.750			0.112	30
(-)-Caryophyllene Oxide	< LOQ	%		< LOQ				30
(-)-alpha Bisabolol	0.526	%		0.526			0.0489	30
Camphene	< LOQ	%		< LOQ				30
beta Pinene	0.251	%		0.250			0.0657	30
Ocimene	< LOQ	%		< LOQ				30
Sabinene	< LOQ	%		< LOQ				30
Camphor	< LOQ	%		< LOQ				30
Isoborneol	< LOQ	%		< LOQ				30
Menthol	< LOQ	%		< LOQ				30
alpha Cedrene	< LOQ	%		< LOQ				30
Nerolidol	0.093	%		< LOQ				30
(+)-Pulegone	< LOQ	%		< LOQ				30
Eucalyptol	< LOQ	%		< LOQ				30
p-Cymene	< LOQ	%		< LOQ				30
(-)-Isopulegol	< LOQ	%		< LOQ				30


Breeanna Hamilton For Brian Weigel
Lab Director

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Quality Control Terpene Analysis (Continued)

Batch: B210583 - Potency/Terpenes (Continued)

Duplicate(B210583-DUP1)		Extracted - 02/26/21 14:49		Analyzed - 02/26/21 21:52				
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Geranyl Acetate	< LOQ	%		< LOQ				30
Guaiol	< LOQ	%		< LOQ				30
Valencene	< LOQ	%		< LOQ				30
Phytol	< LOQ	%		0.114				30
Citronellol	< LOQ	%		< LOQ				30
gamma Terpinene	< LOQ	%		< LOQ				30


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**OREGON LIQUOR CONTROL COMMISSION
CANNABIS TRANSPORTATION MANIFEST**



21B0190

21B0189

21B0191

All sales transactions are to be completed prior to transportation of any CANNABIS. The receiving entity may reject product delivered, but amount delivered must be limited to amount agreed upon in prior sales transaction.

Manifest No.	0003052040	Date Created	2/23/2021 1:01 PM
Originating Entity	Willamette Valley Alchemy	For OLCC Use Only	
Originating License Number	030-1000096CBB6		
Address of Originating Entity	870 W. 2nd Ave Unit: D Eugene, OR 97402 County: Lane		
Phone No. of Originating Entity	541-255-9170		
Contact Phone No. for Inquiries: 8018824601			
1. Destination	SC Laboratories	Destination Phone No.	503-272-8838
Destination License Number	010-1004748743D	Date and Approx. Time of Departure	2/23/2021 1:10 PM
Address of Destination	15865 SW 74th Avenue Ste 110 Tigard, OR 97224 County: Washington	Date and Approx. Time of Arrival	2/23/2021 3:30 PM
		Date/Time Received	2/23/21 15:32
		Notes: details for extenuating circumstances (e.g., road closure, flat tire, etc.)	
Route to be Traveled Get on I-105 E from Monroe St and W 5th Ave Follow I-5 N to Lower Boones Ferry Rd in Tualatin. Take exit 290 from I-5 N Take SW Durham Rd to SW 74th Ave in Tigard			
Name of Person Transporting	Scott Forster	Handler Permit No. of Driver	SC Sampler
State Driver's License No.	A625521	Signature of Person Transporting	<i>Scott</i>
Make, Model, License Plate No.	Nissan Kicks 249 MGD		
1. Package I Shipped	Production Batch No.	Item Name	Quantity
1A4010300003909000014121 Lab Test: SubmittedForTesting		Jack Fruit LLR (Bula-957A) (Extracts)	Shp: 7.1800 g
Item Details			
Source Harvest(s)	(multi-harvest)		
Source Package(s)	1A4010300003909000014116		
2. Package I Shipped	Production Batch No.	Item Name	Quantity
1A4010300003909000014119 Lab Test: SubmittedForTesting		Layer Cake Shatter (Trichome-961) (Extracts)	Shp: 32.5300 g
Item Details			
Source Harvest(s)	(multi-harvest)		
Source Package(s)	1A4010300003909000014115		
3. Package I Shipped	Production Batch No.	Item Name	Quantity
1A4010300003909000014120 Lab Test: SubmittedForTesting		Mac LCR (Siren-956B) (Extracts)	Shp: 7.1600 g
Item Details			
Source Harvest(s)	(multi-harvest)		
Source Package(s)	1A4010300003909000014114		
4. Package I Shipped	Production Batch No.	Item Name	Quantity
1A4010300003909000014122 Lab Test: SubmittedForTesting		RETREATS: Bubblehash Rec 10pk (GMO X Sunset Octane Infusible Rosin-160-14113) (Edibles (each))	Shp: 2.0000 ea
Item Details			
Source Harvest(s)	(multi-harvest)		
Source Package(s)	1A4010300003909000014113		



**OREGON LIQUOR CONTROL COMMISSION
CANNABIS TRANSPORTATION MANIFEST**



21B0189
21B0191
21B0190

All sales transactions are to be completed prior to transportation of any CANNABIS. The receiving entity may reject product delivered, but amount delivered must be limited to amount agreed upon in prior sales transaction.

Manifest No.	0003052040	Date Created	2/23/2021 1:01 PM
PRODUCT REJECTION <i>(if only a portion of shipment is rejected, circle that portion above)</i>			
Name of Person Receiving or Rejecting Product	Alfredo Montes de Oca		
I confirm that the contents of this shipment match weight records entered above, and I agree to take custody of those portions of this shipment <i>not</i> circled above. Those portions circled were returned to the individual delivering this shipment.			
Signature	Am	Date	2/23/21
Signature of individual taking receipt of rejected portion of this shipment			

Client: Willamette Valley Alchemy Client License: 100096CBBC Date Sampled: 2/23/2021 Thermometer ID: T014
 Address Where Sampled: 870 W 2nd Ave unit: D Eugene, OR 97402 Requestor: Paul Sherman Event ID: 21B0190 Balance ID: SAMP_BAL_05
 Sampling SOP & Rev. #: SC-OR-SAMP-003 Sampler: Scott Forster Transporter: Scott Forster Hygrometer ID: Anemometer_02

Sampler Signature

Lab ORELAP ID: 4133
 Lab OLCC ID: 1004748743D

Weight used (g)	Weight Set ID	Acceptance Criteria	Initial Measured	Initial P/F	Final Measured	Final P/F
0.5	SAMP_CAL_05	±2.5%	0.5	P	0.5	P
200		±2.5%	199.96		199.96	



Container Type	METRC Harvest/Processing Lot ID #:				Product Type	Client Sample Name	Product Date	Batch Size (g)
Mason Jars	1A401030003909000014114				Concentrate	Mac LCR (Siren-956B)	2/22/2021	773
METRC Batch ID	Product Temp (°C)	Humidity (%)	# of Containers	Sampling Media	# Zones	# of Inc.	1° Sample (g)	Sample Name
	18.8	53.1	2	vial	4	6	0.583333333	Mac LCR (Siren-956B) Primary
Lab Sample ID	Container ID		Increment Zone	Sampling Media Wt. (g)	Wt. Inc+Media (g)	Increment Weight (g)	Sample METRC ID#	
21B0190-01	Mac LCR (Siren-956B)-1		A3	0	0.59	0.59	14120	
21B0190-01	Mac LCR (Siren-956B)-1		A3	0.59	1.18	0.59	14120	
21B0190-01	Mac LCR (Siren-956B)-1		A4	1.18	1.77	0.59	14120	
21B0190-01	Mac LCR (Siren-956B)-2		B1	1.77	2.36	0.59	14120	
21B0190-01	Mac LCR (Siren-956B)-2		B2	2.36	2.95	0.59	14120	
21B0190-01	Mac LCR (Siren-956B)-2		B4	2.95	3.54	0.59	14120	
Totals:								
			6	6	Total Primary Mass = 3.54		Primary + Duplicate Mass = 7.16 g	

Observations and Abnormalities:	Batch #	Equipment	Cont. Types/Sizes	Uniform	Plant Colors	Shape and Size	Sampling Plan ID & Rev. Date

METRC Batch ID	Product Temp (°C)	Humidity (%)	# of Containers	Sampling Media	# Zones	# of Inc.	1° Sample (g)	Sample Name
	18.8	53.1	2	vial	4	6	0.583333333	Mac LCR (Siren-956B) Duplicate
Lab Sample ID	Container ID		Increment Zone	Sampling Media Wt. (g)	Wt. Inc+Media (g)	Increment Weight (g)	Sample METRC ID#	
21B0190-02	Mac LCR (Siren-956B)-1		A1	0	0.59	0.59	14120	
21B0190-02	Mac LCR (Siren-956B)-1		A2	0.59	1.18	0.59	14120	
21B0190-02	Mac LCR (Siren-956B)-1		A4	1.18	1.77	0.59	14120	
21B0190-02	Mac LCR (Siren-956B)-2		B3	1.77	2.36	0.59	14120	
21B0190-02	Mac LCR (Siren-956B)-2		B4	2.36	2.95	0.59	14120	
21B0190-02	Mac LCR (Siren-956B)-2		B4	2.95	3.62	0.67	14120	

