



April 01, 2022

LeafLine Labs 8235 97th Street South Cottage Grove MN 5501

Work Order Number: 2201346

Enclosed are the results of analyses for samples received by the laboratory on 03/17/22 and tested per the requirements of the MDH Office of Medical Cannabús program. If there are any questions concerning this report, please feel free to contact me or the Quality Assurance Department.

Results are not blank corrected unless noted within the report.

The results in this report apply to the samples as received

All samples will be retained by Legend Technical Services, Inc. unless consumed in the analysis, for 30 days from the date of this report and then returned, discarded, or retained per current agreement and in accordance with the requirements of LEGEND's Controlled Substance Program.

Prepared by,

LEGEND TECHNICAL SERVICES, INC.
Approved Testing Laboratory, MDH Office of Medical Cannabis
ISO/IEC 17025:2017 Accredited, A2LA Certificate 2950.01

Taylor Schertler

Administrative Manager Investigative Chemistry

Taylor Schertler



8235 97th Street South Work Order #: 2201346 Cottage Grove, MN 55016 Project Manager: Date Reported: 04/01/22

ANALYTICAL REPORT FOR SAMPLES

Cottage Grove, MN 55016	Project Manager:			Date Rep	ported: 04/01/22
	ANALYTICAL R	EPORT FOR SAME	PLES		
Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
40-02.11-26.21-R (2 Bags)		2201346-01	Flower	03/17/22 08:30	03/17/22 11:58
45-01.11-18.21-R (8 Bags)		2201346-02	Flower	03/17/22 08:30	03/17/22 11:58

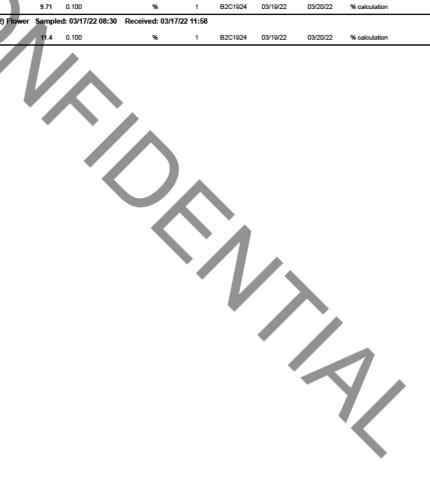


 8235 97th Street South
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 Cottage Grove, MN 55016
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PERCENT MOISTURE Legend Technical Services, Inc.

Analyte	Result	RL MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flower	r Sample	d: 03/17/22 08:30	Received: 03/1	7/22 11:58					
% Moisture	9.71	0.100	%	1	B2C1924	03/19/22	03/20/22	% calculation	
45-01.11-18.21-R (8 Bags) (2201346-02) Flower	r Sample	d: 03/17/22 08:30	Received: 03/1	7/22 11:58					
% Moisture	11.4	0.100	%	1	B2C1924	03/19/22	03/20/22	% calculation	





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TOTAL CANNABINOIDS Legend Technical Services, Inc.

			Legend Te	echnical Se	ervices, l	nc.				
Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01	RE3) Flower Sa	mpled: 03	/17/22 08:30	Received: 0	3/17/22 11:	58				
Average Total CBD	0.0288	0.00400		%	1	B2C2420	03/24/22	03/24/22	HPLC	
Average Total THC	12.4	0.00400		%	1					
Cannabidiol (CBD)	<0.00343	0.00343		%	1	B2C2325	03/22/22	03/23/22		
Cannabidiolic Acid (CBDA)	0.0317	0.00343		%	1	•	•	•	•	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.343	0.00343		%	1	•	•	•	•	
THCA-A	13.8	0.343		%	100	•	•	03/23/22	•	V3
Total CBD	0.0278	0.00645		% by Weight	1	[CALC]	•	03/23/22	•	
Total THC	12.5	0.305		% by Weight	100	•	•	03/23/22	•	
40-02.11-26.21-R (2 Bags) (2201346-01	RE4) Flower Sa	mpled: 03	/17/22 08:30	Received: 0	3/17/22 11:5	58				
Cannabidiol (CBD)	0.00405	0.00400		%	1	B2C2325	03/22/22	03/23/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0260	0.00400		%	1					
Delta-9-Tetrahydrocannabinol (d9-THC)	0.295	0.00400		%	1	•	•	•	•	
THCA-A	12.4	0.400		%	100	•	•	03/23/22	•	V3
Total CBD	0.0269	0.00751		% by Weight		[CALC]	•	03/23/22	•	
Total THC	11.2	0.355		% by Weight	100		•	03/23/22	•	
40-02.11-26.21-R (2 Bags) (2201346-01	RE5) Flower Sa	mpled: 03	/17/22 08:30	Received: 0	3/17/22 11:5	58				
Cannabidiol (CBD)	0.00461	0.00400		%	1	B2C2325	03/22/22	03/23/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0309	0.00400		%	1		•	•	•	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.345	0.00400		%	1				•	
THCA-A	15.0	0.400		%	100			03/23/22		V3
Total CBD	0.0317	0.00751		% by Weight	1	[CALC]		03/23/22	•	
Total THC	13.5	0.355		% by Weight	100	•		03/23/22	•	
45-01.11-18.21-R (8 Bags) (2201346-02) Flower Sample	ed: 03/17/2	22 08:30 Re	ceived: 03/17	/22 11:58					
Average Total CBD	0.0456	0.00400		%	1	B2C2328	03/23/22	03/23/22	HPLC	
Average Total THC	19.0	0.00400		%	1		•			
Cannabidiol (CBD)	0.00722	0.00354		96	1	B2C2220	03/22/22	03/22/22		
Cannabidiolic Acid (CBDA)	0.0432	0.00354		%	1	•	•		•	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.465	0.0354		%	10	•	•		7 /	
THCA-A	20.9	0.354		%	100	•	•	- 1		
Total CBD	0.0451	0.00665		% by Weight	1	[CALC]	•	. `		
Total THC	18.8	0.346		% by Weight	100	•	•	•		
45-01.11-18.21-R (8 Bags) (2201346-02	RE1) Flower Sa	mpled: 03	/17/22 08:30	Received: 0	3/17/22 11:5	58				
Cannabidiol (CBD)	0.00799	0.00349		%	1	B2C2220	03/22/22	03/22/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0446	0.00349		%	1		•	•	•	
	0.479	0.0349		%	10	•	•	•	•	
Delta-9-Tetrahydrocannabinol (d9-THC)										
	21.0	0.349		%	100		-	•	•	
(d9-THC)		0.349 0.00656 0.341		% % by Weight % by Weight	100 1 100	" [CALC]	:	:	:	



 LeafLine Labs
 LEGEND Project:
 Flower Products

 8235 97th Street South
 Work Order #: 2201346

 Cottage Grove, MN 55016
 Project Manager:
 Date Reported: 04/01/22

TOTAL CANNABINOIDS Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45-01.11-18.21-R (8 Bags) (2201346-02RE2)	Flower Sa	mpled: 03/1	17/22 08:30	Received: (3/17/22 11:	58				
Cannabidiol (CBD)	0.00644	0.00400		%	1	B2C2220	03/22/22	03/22/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0435	0.00400		%	1					
Delta-9-Tetrahydrocannabinol	0.461	0.0400		%	10					
(d9-THC) THCA-A	21.5	0.400		%	100					
Total CBD	0.0446	0.00751		% by Weight	1	[CALC]				
Total THC	19.3	0.391		% by Weight	100					
						1				•



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TERPENES Legend Technical Services, Inc.

			Legend	Technical S	ervices, i	IIC.				
Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flow	er Sampl	ed: 03/17/2	22 08:30	Received: 03/17	/22 11:58					
(-)-Alpha-Bisabolol	0.023	0.0040	0.00088	% by Weight	1	B2C2402	03/24/22	03/25/22	EPA 8270E	
(-)-beta-Pinene	0.052	0.0040		% by Weight	1				•	
(-)-Guaiol	<0.0040	0.0040		% by Weight	1				•	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1				•	
(R)-(+)-Limonene	0.042	0.0040	0.00075	% by Weight	1				•	
alpha-Humulene	0.015	0.0040	0.00029	% by Weight	1				•	
alpha-Pinene	0.029	0.0040	0.00052	% by Weight	1				•	
alpha-Terpinene	<0.020	0.020		% by Weight	1		•		•	
beta-Myrcene	0.080	0.0040	0.00031	% by Weight	1		•		•	
Camphene	<0.0040	0.0040		% by Weight	1		•		•	
delta-3-carene	0.020	0.010		% by Weight	1		•		•	
gamma-Terpinene	0.0054	0.0040		% by Weight	1		•		•	
Geraniol	<0.0040	0.0040	0.0012	% by Weight	1		•		•	
Linalool	0.0057	0.0040	0.00042	% by Weight	1,		•		•	
Nerolidol	<0.0040	0.0040		% by Weight	1		•		•	
Ocimene	<0.0040	0.0040	`	% by Weight	1		•		•	
p-Isopropyltoluene (p-Cymene)	<0.010	0.010		% by Weight	1		•		•	
Terpinolene	0.12	0.0040	0.00047	% by Weight	1		•		•	
trans-Caryophyllene	0.041	0.0040	0.00049	% by Weight	1		•	•	•	
45-01.11-18.21-R (8 Bags) (2201346-02) Flow	er Sampl	ed: 03/17/2	22 08:30	Received: 03/17	722 11:58					
(-)-Alpha-Bisabolol	0.040	0.0040	0.00088	% by Weight	1	B2C2402	03/24/22	03/24/22	EPA 8270E	
(-)-beta-Pinene	0.025	0.0040		% by Weight	1		7 • ¬		•	
(-)-Guaiol	0.065	0.0040		% by Weight	1		•		•	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1		•		•	
(R)-(+)-Limonene	0.086	0.0040	0.00075	% by Weight	1		•	•	•	
alpha-Humulene	0.028	0.0040	0.00029	% by Weight	1		•	•	•	
alpha-Pinene	0.012	0.0040	0.00052	% by Weight	1		•			
alpha-Terpinene	<0.020	0.020		% by Weight	1		• •			
beta-Myrcene	0.14	0.0040	0.00031	% by Weight	1		•		•	
Camphene	<0.0040	0.0040		% by Weight	1		•		y • 🔏	
delta-3-carene	<0.010	0.010		% by Weight	1		•			
gamma-Terpinene	<0.0040	0.0040		% by Weight	1		•			
Geraniol	<0.0040	0.0040	0.0012	% by Weight	1		•	•		
Linalool	0.033	0.0040	0.00042	% by Weight	1	•	•	•		
Nerolidol	0.012	0.0040		% by Weight	1	•	•	•	. 🔻	
Ocimene	0.0059	0.0040		% by Weight	1		•	•	•	
p-Isopropyltoluene (p-Cymene)	<0.010	0.010		% by Weight	1	•	•	•	•	
Terpinolene	0.0058	0.0040	0.00047	% by Weight	1		•	•	•	
trans-Caryophyllene	0.095	0.0040	0.00049	% by Weight	1		•	•	•	



LeafLine Labs LEGEND Project: Flower Products 8235 97th Street South

Cottage Grove, MN 55016 Project Manager:

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AFLATOXINS Legend Technical Services, Inc.

Analyte	Result	RL MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2	201346-01) Flower Sample	ed: 03/17/22 08:30	Received: 03/1	7/22 11:58					
Aflatoxin B1	<2.7	2.7	ng/g	1	B2C2517	03/25/22	03/29/22	LC-MS/MS	
Aflatoxin B2	2.7	2.7	ng/g	1	•			•	
Aflatoxin G1	4. 7	2.7	ng/g	1	•	•		•	
Aflatoxin G2	<5.3	5.3	ng/g	1	•	•		•	
Ochratoxin A	<18	18	ng/g	1	•	•	•	•	L5a, V1
45-01.11-18.21-R (8 Bags) (2		ed: 03/17/22 08:30	Received: 03/1	7/22 11:58					
Aflatoxin B1	<2.2	2.2	ng/g	1	B2C2517	03/25/22	03/29/22	LC-MS/MS	
Aflatoxin B2	<2.2	2.2	ng/g	1	•	•		•	
Aflatoxin G1	<2.2	2.2	ng/g	1	:	:		:	
Aflatoxin G2 Ochratoxin A	<4.4 <15	4.4 15	ng/g	1					L5a, V1
Octifatoxiii A	<15	10	ng/g	1	-	-		-	LUA, VI
					1				



 LeafLine Labs
 LEGEND Project.
 Flower Products

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PESTICIDES Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flower	Sample	ed: 03/17/2	2 08:30	Received: 03/1	17/22 11:58					
Pyrethrin I	<0.033	0.033		ug/g	1	B2C2423	03/24/22	03/26/22	LC-MS/MS	
Pyrethrin II	<0.017	0.017		ug/g	1					A-01
5-01.11-18.21-R (8 Bags) (2201346-02) Flower	Sample	ed: 03/17/2	2 08:30	Received: 03/1	17/22 11:58					
Pyrethrin I	<0.040	0.040		ug/g	1	B2C2423	03/24/22	03/26/22	LC-MS/MS	
Pyrethrin II	<0.020	0.020		ug/g	1					A-01
						1				•



 LeafLine Labs
 LEGEND Project:
 Flower Products

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TOTAL METALS ANALYSIS Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flow	er Sample	ed: 03/17/2	2 08:30	Received: 03/1	7/22 11:58					
Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2C2413	03/24/22	03/24/22	EPA 6020B	L4, R6
Cadmium	<0.10	0.10	0.017	ug/g wet	1					
Lead	<0.10	0.10	0.016	ug/g wet	1	•	•	•	•	V1
Mercury	<0.10	0.10	0.016	ug/g wet	1	•	•	•	•	L4, V1
45-01.11-18.21-R (8 Bags) (2201346-02) Flow	er Sample	ed: 03/17/2	2 08:30	Received: 03/1	7/22 11:58					
Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2C2413	03/24/22	03/24/22	EPA 6020B	L4, R6
Cadmium	<0.10	0.10	0.017	ug/g wet	1	•	•	•	•	
Lead	<0.10	0.10	0.018	ug/g wet	1					V1
Mercury	<0.10	0.10	0.016	ug/g wet	1	•	•	•	•	L4, V1
						1				



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MICRO ANALYSES Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flower	er Sample	ed: 03/17/2	2 08:30	Received: 03/1	7/22 11:58					
Salmonella	<1.0	1.0		CFU/g	1	B2C2407	03/22/22	03/24/22	AOAC 2014.01	
Total Aerobic Bacteria	<250	250		CFU/g	1	B2C2406	03/22/22	03/24/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<150	150		CFU/g	1	-	•	03/23/22	AOAC 2003.01	
Total Coliform	<10	10		CFU/g	1			03/23/22	AOAC 991.14	
Total E.coli	<1.0	1.0		CFU/g	1			03/24/22		
Total Yeast and Mold	6000	1000		CFU/g	100			03/25/22	AOAC 997.02	
45-01.11-18.21-R (8 Bags) (2201346-02) Flower	er Sample	ed: 03/17/2	2 08:30	Received: 03/1	7/22 11:58					
Salmonella	<1.0	1.0		CFU/g	1	B2C2407	03/22/22	03/24/22	AOAC 2014.01	
Total Aerobic Bacteria	<250	250)	CFU/g	1	B2C2406	03/22/22	03/24/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative	<150	150		CFU/g	1	•	•	03/23/22	AOAC 2003.01	
Bacteria Total Coliform	<10	10		CFU/g	1			03/23/22	AOAC 991.14	
Total E.coli	<1.0	1.0		CFU/g	1			03/24/22		
Total Yeast and Mold	3000	1000		CFU/g	100			03/25/22	AOAC 997.02	
						1				•



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WATER ACTIVITY Legend Technical Services, Inc.

Analyte	Result	RL MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
40-02.11-26.21-R (2 Bags) (2201346-01) Flower	r Sample	ed: 03/17/22 08:30	Received: 03/1	7/22 11:58					
Water Activity	0.46	0.14	aW	1	B2C1923	03/19/22	03/20/22	NA	
45-01.11-18.21-R (8 Bags) (2201346-02) Flower	r Sample	ed: 03/17/22 08:30	Received: 03/1	7/22 11:58					
Water Activity	0,47	0.14	aW	1	B2C1923	03/19/22	03/20/22	NA	

Report Comments

Result potentailly bias low due to high IS failure - N1

Notes and Definitions

V3 CCV recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
R6 LFB/LFBD (LCS/LCSD) RPD exceeded the method acceptance limit. Recoveries met acceptance criteria.

QM-11 Spike recovery was outside of laboratory limits

N1 See case narrative.

M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.

L5a The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.

L4 The associated blank spike recovery was below method acceptance limits.

A-01 Reporting limit verification (RLV) recovery was outside of laboratory limits. This compounds was not detected in any of the associated samples.

Less than value listed
 RL Reporting Limit

CFU/g Colony Forming Units per gram