

April 27, 2022

LeafLine Labs  
8235 97th Street South  
Cottage Grove, MN 55016

Work Order Number: 2201788

Enclosed are the results of analyses for samples received by the laboratory on 04/14/22 and tested per the requirements of the MDH Office of Medical Cannabis 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



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Taylor Schertler  
Administrative Manager Investigative Chemistry

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2201788
8235 97th Street South	Project Manager:	Date Reported: 04/27/22
Cottage Grove, MN 55016		

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
45.01-12.06.21-R-Flower (17 Bags)	2201788-01	Flower	04/14/22 07:30	04/14/22 15:07

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**PERCENT MOISTURE**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
% Moisture	12.2	0.100		%	1	B2D2021	04/20/22	04/21/22	% calculation	

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**TOTAL CANNABINOIDS**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
Average Total CBD	0.0342	0.00400		%	1	B2D1830	04/18/22	04/21/22	HPLC	
Average Total THC	17.8	0.00400		%	1	"	"	"	"	
Cannabidiol (CBD)	<0.00312	0.00312		%	1	B2D1932	04/19/22	04/20/22	"	
Cannabidiolic Acid (CBDA)	0.0388	0.00312		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.594	0.0312		%	10	"	"	04/20/22	"	
THCA-A	19.3	0.312		%	100	"	"	04/20/22	"	
Total CBD	0.0340	0.00586		% by Weight	1	[CALC]	"	04/20/22	"	
Total THC	17.6	0.305		% by Weight	100	"	"	04/20/22	"	
<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01RE1) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
Cannabidiol (CBD)	<0.00353	0.00353		%	1	B2D1932	04/19/22	04/20/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0391	0.00353		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.672	0.0353		%	10	"	"	04/20/22	"	
THCA-A	19.8	0.353		%	100	"	"	04/20/22	"	
Total CBD	0.0343	0.00663		% by Weight	1	[CALC]	"	04/20/22	"	
Total THC	18.1	0.345		% by Weight	100	"	"	04/20/22	"	
<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01RE2) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
Cannabidiol (CBD)	<0.00344	0.00344		%	1	B2D1932	04/19/22	04/20/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0391	0.00344		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.649	0.0344		%	10	"	"	04/20/22	"	
THCA-A	19.5	0.344		%	100	"	"	04/20/22	"	
Total CBD	0.0343	0.00645		% by Weight	1	[CALC]	"	04/20/22	"	
Total THC	17.7	0.336		% by Weight	100	"	"	04/20/22	"	

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**TERPENES**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
(-)-Alpha-Bisabolol	0.035	0.0040	0.00088	% by Weight	1	B2D2211	04/22/22	04/26/22	EPA 8270E	
(-)-beta-Pinene	0.033	0.0040		% by Weight	1	"	"	"	"	
(-)-Guaial	0.064	0.0040		% by Weight	1	"	"	"	"	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1	"	"	"	"	
(R)-(+)-Limonene	0.11	0.0040	0.00075	% by Weight	1	"	"	"	"	
alpha-Humulene	0.038	0.0040	0.00029	% by Weight	1	"	"	"	"	
alpha-Pinene	0.016	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	0.0043	0.0040		% by Weight	1	"	"	"	"	
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	0.045	0.0040	0.00042	% by Weight	1	"	"	"	"	
Nerolidol	0.0078	0.0040		% by Weight	1	"	"	"	"	
Ocimene	0.0077	0.0040		% by Weight	1	"	"	"	"	
p-Isopropyltoluene (p-Cymene)	<0.010	0.010		% by Weight	1	"	"	"	"	
Terpinolene	<0.0040	0.0040	0.00047	% by Weight	1	"	"	"	"	
trans-Caryophyllene	0.14	0.0040	0.00049	% by Weight	1	"	"	"	"	

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**AFLATOXINS**  
**Legend Technical Services, Inc.**

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<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
Aflatoxin B1	<2.3	2.3		ng/g	1	B2D1815	04/18/22	04/25/22	LC-MS/MS	
Aflatoxin B2	<2.3	2.3		ng/g	1	"	"	"	"	
Aflatoxin G1	<2.3	2.3		ng/g	1	"	"	"	"	
Aflatoxin G2	<4.6	4.6		ng/g	1	"	"	"	"	
Ochratoxin A	<15	15		ng/g	1	"	"	"	"	L5a, M1, V1

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**TOTAL METALS ANALYSIS**  
**Legend Technical Services, Inc.**

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Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2D2105	04/21/22	04/25/22	EPA 6020B	L4
Cadmium	<0.10	0.10	0.017	ug/g wet	1	"	"	"	"	
<b>Lead</b>	<b>0.16</b>	0.10	0.016	ug/g wet	1	"	"	"	"	
Mercury	<0.10	0.10	0.016	ug/g wet	1	"	"	04/26/22	"	L4

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**MICRO ANALYSES**  
**Legend Technical Services, Inc.**

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<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
Salmonella	<1.0	1.0		CFU/g	1	B2D2324	04/18/22	04/20/22	AOAC 2014.01	
Total Aerobic Bacteria	<220	220		CFU/g	1	B2D2323	04/18/22	04/20/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<130	130		CFU/g	1	"	"	04/19/22	AOAC 2003.01	
Total Coliform	<9.0	9.0		CFU/g	1	"	"	04/19/22	AOAC 991.14	
Total E.coli	<0.90	0.90		CFU/g	1	"	"	04/20/22	"	
<b>Total Yeast and Mold</b>	<b>900</b>	900		CFU/g	100	"	"	04/21/22	AOAC 997.02	

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**WATER ACTIVITY**  
**Legend Technical Services, Inc.**

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<b>45.01-12.06.21-R-Flower (17 Bags) (2201788-01) Flower</b> <b>Sampled: 04/14/22 07:30</b> <b>Received: 04/14/22 15:07</b>										
<b>Water Activity</b>	<b>0.36</b>	0.14		aW	1	B2D2624	04/26/22	04/26/22	NA	

**Report Comments:**

**Notes and Definitions**

- V1      CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- M1      Matrix spike recovery was high, 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.
- <        Less than value listed
- RL      Reporting Limit
- CFU/g   Colony Forming Units per gram