

February 28, 2022

## REVISION

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

Work Order Number: 2200644

This is a revised report. The details of the revision are listed in the Report Comments section of this report.

Enclosed are the results of analyses for samples received by the laboratory on 02/08/22 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 #: 2200644
8235 97th Street South	Project Manager:	Date Reported: 02/28/22
Cottage Grove, MN 55016		

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lot 18 Popcorn, 18.05-07.22.21-Pop	2200644-01	Flower	02/08/22 08:30	02/08/22 12:41

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2200644
8235 97th Street South		Date Reported: 02/28/22
Cottage Grove, MN 55016	Project Manager:	

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

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
% Moisture	12.6	0.100		%	1	B2B0930	02/09/22	02/09/22	% calculation	

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8235 97th Street South		Date Reported: 02/28/22
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**TOTAL CANNABINOIDS**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower Sampled: 02/08/22 08:30 Received: 02/08/22 12:41</b>										
Average Total CBD	11.3	0.00400		%	1	B2B1823	02/18/22	02/18/22	HPLC	
Average Total THC	6.52	0.00400		%	1	"	"	"	"	
Cannabidiol (CBD)	0.358	0.00358		%	1	B2B1036	02/09/22	02/09/22	"	
Cannabidiolic Acid (CBDA)	12.2	0.358		%	100	"	"	02/09/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.659	0.0358		%	10	"	"	02/09/22	"	
THCA-A	6.55	0.358		%	100	"	"	02/09/22	"	
Total CBD	11.1	0.318		% by Weight	100	[CALC]	"	"	"	
Total THC	6.40	0.350		% by Weight	100	"	"	"	"	
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01RE1) Flower Sampled: 02/08/22 08:30 Received: 02/08/22 12:41</b>										
Cannabidiol (CBD)	0.353	0.00354		%	1	B2B1036	02/09/22	02/09/22	HPLC	
Cannabidiolic Acid (CBDA)	12.5	0.354		%	100	"	"	02/10/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.643	0.0354		%	10	"	"	02/09/22	"	
THCA-A	6.71	0.354		%	100	"	"	02/10/22	"	
Total CBD	11.3	0.314		% by Weight	100	[CALC]	"	"	"	
Total THC	6.53	0.345		% by Weight	100	"	"	"	"	
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01RE2) Flower Sampled: 02/08/22 08:30 Received: 02/08/22 12:41</b>										
Cannabidiol (CBD)	0.351	0.00352		%	1	B2B1036	02/09/22	02/10/22	HPLC	
Cannabidiolic Acid (CBDA)	12.7	0.352		%	100	"	"	02/10/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.661	0.0352		%	10	"	"	02/10/22	"	
THCA-A	6.81	0.352		%	100	"	"	02/10/22	"	
Total CBD	11.5	0.312		% by Weight	100	[CALC]	"	"	"	
Total THC	6.63	0.344		% by Weight	100	"	"	"	"	

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

LEGEND Project: Flower Products

Project Manager:

Work Order #: 2200644

Date Reported: 02/28/22

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

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
(-)-Alpha-Bisabolol	0.051	0.0040	0.00088	% by Weight	1	B2B1526	02/15/22	02/17/22	EPA 8270E	
(-)-beta-Pinene	0.036	0.0040		% by Weight	1	"	"	"	"	
(-)-Guaial	0.090	0.0040		% by Weight	1	"	"	"	"	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1	"	"	"	"	
(R)-(+)-Limonene	0.058	0.0040	0.00075	% by Weight	1	"	"	"	"	
alpha-Humulene	0.018	0.0040	0.00029	% by Weight	1	"	"	"	"	
alpha-Pinene	0.057	0.0040	0.00052	% by Weight	1	"	"	"	"	
alpha-Terpinene	<0.020	0.020		% by Weight	1	"	"	"	"	
beta-Myrcene	0.13	0.0040	0.00031	% by Weight	1	"	"	"	"	
Camphene	<0.0040	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	0.029	0.0040	0.00042	% by Weight	1	"	"	"	"	
Nerolidol	0.0050	0.0040		% by Weight	1	"	"	"	"	
Ocimene	0.025	0.0040		% by Weight	1	"	"	"	"	
p-Isopropyltoluene (p-Cymene)	<0.010	0.010		% by Weight	1	"	"	"	"	
Terpinolene	0.022	0.0040	0.00047	% by Weight	1	"	"	"	"	
trans-Caryophyllene	0.062	0.0040	0.00049	% by Weight	1	"	"	"	"	

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2200644
8235 97th Street South		Date Reported: 02/28/22
Cottage Grove, MN 55016	Project Manager:	

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

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
Aflatoxin B1	<2.7	2.7		ng/g	1	B2B1426	02/14/22	02/18/22	LC-MS/MS	
Aflatoxin B2	<2.7	2.7		ng/g	1	"	"	"	"	
Aflatoxin G1	<2.7	2.7		ng/g	1	"	"	"	"	
Aflatoxin G2	<5.3	5.3		ng/g	1	"	"	"	"	
Ochratoxin A	<18	18		ng/g	1	"	"	"	"	A-01a, M1

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8235 97th Street South		Date Reported: 02/28/22
Cottage Grove, MN 55016	Project Manager:	

**PESTICIDES**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower Sampled: 02/08/22 08:30 Received: 02/08/22 12:41</b>										
Acetamiprid	<0.15	0.15		ug/g	1	B2B1034	02/16/22	02/17/22	LC-MS/MS	
Aldicarb	<0.15	0.15		ug/g	1	"	"	"	"	
Azoxystrobin	<0.15	0.15		ug/g	1	"	"	"	"	
Bifenazate	<0.15	0.15		ug/g	1	"	"	"	"	
Bifenthrin	<0.15	0.15		ug/g	1	"	"	"	"	
Boscalid	<0.15	0.15		ug/g	1	"	"	"	"	A-01
Carbaryl	<0.15	0.15		ug/g	1	"	"	"	"	
Carbofuran (Furadan)	<0.15	0.15		ug/g	1	"	"	"	"	
Chlorantraniliprole	<0.15	0.15		ug/g	1	"	"	"	"	
Clofentezine	<0.15	0.15		ug/g	1	"	"	"	"	
Cypermethrin	<0.15	0.15		ug/g	1	"	"	"	"	
Diazinon	<0.15	0.15		ug/g	1	"	"	"	"	
Dichlorvos	<0.15	0.15		ug/g	1	"	"	"	"	
Dimethoate	<0.15	0.15		ug/g	1	"	"	"	"	
Dursban	<0.15	0.15		ug/g	1	"	"	"	"	
Ethoprophos	<0.15	0.15		ug/g	1	"	"	"	"	
Etofenprox	<0.15	0.15		ug/g	1	"	"	"	"	
Etoxazole	<0.15	0.15		ug/g	1	"	"	"	"	
Fenoxycarb	<0.15	0.15		ug/g	1	"	"	"	"	
Fenpyroximate	<0.15	0.15		ug/g	1	"	"	"	"	
Fonicamid	<0.15	0.15		ug/g	1	"	"	"	"	
Imazalil	<0.15	0.15		ug/g	1	"	"	"	"	
Imidacloprid	<0.15	0.15		ug/g	1	"	"	"	"	
Kresoxim methyl	<0.15	0.15		ug/g	1	"	"	"	"	
Malathion	<0.15	0.15		ug/g	1	"	"	"	"	
Metalaxyl	<0.15	0.15		ug/g	1	"	"	"	"	
Methiocarb	<0.15	0.15		ug/g	1	"	"	"	"	
Methomyl	<0.15	0.15		ug/g	1	"	"	"	"	
Myclobutanil	<0.15	0.15		ug/g	1	"	"	"	"	
Naled	<0.15	0.15		ug/g	1	"	"	"	"	
Oxamyl	<0.15	0.15		ug/g	1	"	"	"	"	
Permethrin	<0.15	0.15		ug/g	1	"	"	"	"	
Phosmet	<0.15	0.15		ug/g	1	"	"	"	"	
Piperonyl butoxide	<0.15	0.15		ug/g	1	"	"	"	"	
Prallethrin	<0.15	0.15		ug/g	1	"	"	"	"	
Propiconazole	<0.15	0.15		ug/g	1	"	"	"	"	
Propoxur	<0.15	0.15		ug/g	1	"	"	"	"	
Pyrethrin I	<0.037	0.037		ug/g	1	"	"	"	"	
Pyrethrin II	<0.019	0.019		ug/g	1	"	"	"	"	
Pyridaben	<0.15	0.15		ug/g	1	"	"	"	"	
Spinosad	<0.15	0.15		ug/g	1	"	"	"	"	L2
Spiromesifen	<0.15	0.15		ug/g	1	"	"	"	"	

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**PESTICIDES**  
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<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
Spirotetramat	<0.15	0.15		ug/g	1	B2B1034	02/16/22	02/17/22	LC-MS/MS	
Spiroxamine	<0.15	0.15		ug/g	1	"	"	"	"	L2
Thiacloprid	<0.15	0.15		ug/g	1	"	"	"	"	
Thiamethoxam	<0.15	0.15		ug/g	1	"	"	"	"	
Trifloxystrobin	<0.15	0.15		ug/g	1	"	"	"	"	



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

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Arsenic	<0.33	0.33	0.21	mg/kg wet	1	B2B1524	02/15/22	02/16/22	EPA 6010D	
Cadmium	<0.18	0.18	0.0037	mg/kg wet	1	"	"	"	"	
Lead	<0.24	0.24	0.031	mg/kg wet	1	"	"	"	"	
Mercury	<0.16	0.16	0.054	mg/kg wet	1	"	"	"	"	

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8235 97th Street South		Date Reported: 02/28/22
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**MICRO ANALYSES**  
**Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
Salmonella	<1.0	1.0		CFU/g	1	B2B1804	02/14/22	02/16/22	AOAC 2014.01	
Total Aerobic Bacteria	<230	230		CFU/g	1	B2B1803	02/14/22	02/16/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<140	140		CFU/g	1	"	"	02/18/22	AOAC 2003.01	
Total Coliform	<9.2	9.2		CFU/g	1	"	"	02/15/22	AOAC 991.14	
Total E.coli	<0.92	0.92		CFU/g	1	"	"	02/16/22	"	
<b>Total Yeast and Mold</b>	<b>740</b>	<b>92</b>		<b>CFU/g</b>	<b>10</b>	<b>"</b>	<b>"</b>	<b>02/17/22</b>	<b>AOAC 997.02</b>	

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

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lot 18 Popcorn, 18.05-07.22.21-Pop (2200644-01) Flower</b> <b>Sampled: 02/08/22 08:30</b> <b>Received: 02/08/22 12:41</b>										
<b>Water Activity</b>	<b>0.44</b>	0.14		aW	1	B2B0931	02/09/22	02/09/22	NA	H5

**Report Comments:**

Revised Report generated on 02/28/2022 in order to include results from only sample -01.

**Notes and Definitions**

- V1      CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- R7      LFB/LFBD (LCS/LCSD) RPD exceeded laboratory acceptance limit. Recoveries met acceptance criteria.
- QR-2    Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- M2      Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- 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.
- L2      The associated blank spike recovery was below laboratory acceptance limits.
- H5      Holding time is not applicable to this specific matrix.
- A-01a   Reporting limit verification (RLV) recovery was above laboratory limits. No detects in associated samples.
- A-01    Reporting limit verification (RLV) recovery was above laboratory limits. No detects in any of the associated samples.
- <        Less than value listed
- RL       Reporting Limit
- CFU/g   Colony Forming Units per gram