

March 21, 2022

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

Work Order Number: 2201073

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 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



Taylor Schertler
Administrative Manager Investigative Chemistry

LeafLine Labs 8235 97th Street South Cottage Grove, MN 55016	LEGEND Project: Flower Products Project Manager:	Work Order #: 2201073 Date Reported: 03/21/22
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
18.05-11.02.21-R-Flower (3 Bags)	2201073-01	Flower	03/03/22 08:30	03/03/22 10:22

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2201073
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Cottage Grove, MN 55016	Project Manager:	

PERCENT MOISTURE
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
% Moisture	11.6	0.100		%	1	B2C0320	03/03/22	03/04/22	% calculation	

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TOTAL CANNABINOIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Average Total CBD	13.7	0.00400		%	1	B2C1110	03/11/22	03/11/22	HPLC	
Average Total THC	8.17	0.00400		%	1	"	"	"	"	
Cannabidiol (CBD)	0.183	0.00400		%	1	B2C1019	03/09/22	03/10/22	"	
Cannabidiolic Acid (CBDA)	15.5	0.400		%	100	"	"	03/10/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.345	0.00400		%	1	"	"	03/10/22	"	
THCA-A	9.21	0.400		%	100	"	"	03/10/22	"	
Total CBD	13.7	0.355		% by Weight	100	[CALC]	"	"	"	
Total THC	8.42	0.355		% by Weight	100	"	"	"	"	
18.05-11.02.21-R-Flower (3 Bags) (2201073-01RE1) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Cannabidiol (CBD)	0.183	0.00346		%	1	B2C1019	03/09/22	03/10/22	HPLC	
Cannabidiolic Acid (CBDA)	15.1	0.346		%	100	"	"	03/10/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.301	0.0346		%	10	"	"	03/10/22	"	
THCA-A	8.62	0.346		%	100	"	"	03/10/22	"	
Total CBD	13.4	0.307		% by Weight	100	[CALC]	"	"	"	
Total THC	7.86	0.338		% by Weight	100	"	"	"	"	
18.05-11.02.21-R-Flower (3 Bags) (2201073-01RE2) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Cannabidiol (CBD)	0.186	0.00364		%	1	B2C1019	03/09/22	03/10/22	HPLC	
Cannabidiolic Acid (CBDA)	15.6	0.364		%	100	"	"	03/10/22	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.354	0.00364		%	1	"	"	03/10/22	"	
THCA-A	8.97	0.364		%	100	"	"	03/10/22	"	
Total CBD	13.9	0.323		% by Weight	100	[CALC]	"	"	"	
Total THC	8.22	0.323		% by Weight	100	"	"	"	"	

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TERPENES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
(-)-Alpha-Bisabolol	0.064	0.0040	0.00088	% by Weight	1	B2C0412	03/04/22	03/08/22	EPA 8270E	
(-)-beta-Pinene	0.094	0.0040		% by Weight	1	"	"	"	"	
(-)-Guaial	0.078	0.0040		% by Weight	1	"	"	"	"	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1	"	"	"	"	
(R)-(+)-Limonene	0.19	0.0040	0.00075	% by Weight	1	"	"	"	"	
alpha-Humulene	0.023	0.0040	0.00029	% by Weight	1	"	"	"	"	
alpha-Pinene	0.16	0.0040	0.00052	% by Weight	1	"	"	"	"	
alpha-Terpinene	<0.020	0.020		% by Weight	1	"	"	"	"	
beta-Myrcene	0.71	0.040	0.0031	% by Weight	10	"	"	03/09/22	"	
Camphene	0.0073	0.0040		% by Weight	1	"	"	03/08/22	"	
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	0.026	0.0040	0.00042	% by Weight	1	"	"	"	"	
Nerolidol	0.0056	0.0040		% by Weight	1	"	"	"	"	
Ocimene	0.099	0.0040		% by Weight	1	"	"	"	"	
p-Isopropyltoluene (p-Cymene)	<0.010	0.010		% by Weight	1	"	"	"	"	
Terpinolene	0.0069	0.0040	0.00047	% by Weight	1	"	"	"	"	
trans-Caryophyllene	0.081	0.0040	0.00049	% by Weight	1	"	"	"	"	

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AFLATOXINS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower										
Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Aflatoxin B1	<2.8	2.8		ng/g	1	B2C1017	03/10/22	03/13/22	LC-MS/MS	
Aflatoxin B2	<2.8	2.8		ng/g	1	"	"	"	"	
Aflatoxin G1	<2.8	2.8		ng/g	1	"	"	"	"	
Aflatoxin G2	<5.5	5.5		ng/g	1	"	"	"	"	
Ochratoxin A	<18	18		ng/g	1	"	"	"	"	QM-11

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PESTICIDES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower										
Sampled: 03/03/22 08:30				Received: 03/03/22 10:22						
Acetamiprid	<0.12	0.12		ug/g	1	B2C1011	03/10/22	03/14/22	LC-MS/MS	
Aldicarb	<0.12	0.12		ug/g	1	"	"	"	"	
Azoxystrobin	<0.12	0.12		ug/g	1	"	"	"	"	
Bifenazate	<0.12	0.12		ug/g	1	"	"	"	"	
Bifenthrin	<0.12	0.12		ug/g	1	"	"	"	"	
Boscalid	<0.12	0.12		ug/g	1	"	"	"	"	
Carbaryl	<0.12	0.12		ug/g	1	"	"	"	"	
Carbofuran (Furadan)	<0.12	0.12		ug/g	1	"	"	"	"	
Chlorantraniliprole	<0.12	0.12		ug/g	1	"	"	"	"	
Clofentezine	<0.12	0.12		ug/g	1	"	"	"	"	
Cypermethrin	<0.12	0.12		ug/g	1	"	"	"	"	
Diazinon	<0.12	0.12		ug/g	1	"	"	"	"	
Dichlorvos	<0.12	0.12		ug/g	1	"	"	"	"	
Dimethoate	<0.12	0.12		ug/g	1	"	"	"	"	
Dursban	<0.12	0.12		ug/g	1	"	"	"	"	
Ethoprophos	<0.12	0.12		ug/g	1	"	"	"	"	
Etofenprox	<0.12	0.12		ug/g	1	"	"	"	"	
Etoxazole	<0.12	0.12		ug/g	1	"	"	"	"	
Fenoxycarb	<0.12	0.12		ug/g	1	"	"	"	"	
Fenpyroximate	<0.12	0.12		ug/g	1	"	"	"	"	
Fonicamid	<0.12	0.12		ug/g	1	"	"	"	"	
Imazalil	<0.12	0.12		ug/g	1	"	"	"	"	
Imidacloprid	<0.12	0.12		ug/g	1	"	"	"	"	
Kresoxim methyl	<0.12	0.12		ug/g	1	"	"	"	"	
Malathion	<0.12	0.12		ug/g	1	"	"	"	"	
Metalaxyl	<0.12	0.12		ug/g	1	"	"	"	"	
Methiocarb	<0.12	0.12		ug/g	1	"	"	"	"	
Methomyl	<0.12	0.12		ug/g	1	"	"	"	"	
Myclobutanil	<0.12	0.12		ug/g	1	"	"	"	"	
Naled	<0.12	0.12		ug/g	1	"	"	"	"	
Oxamyl	<0.12	0.12		ug/g	1	"	"	"	"	
Permethrin	<0.12	0.12		ug/g	1	"	"	"	"	
Phosmet	<0.12	0.12		ug/g	1	"	"	"	"	
Piperonyl butoxide	<0.12	0.12		ug/g	1	"	"	"	"	
Prallethrin	<0.12	0.12		ug/g	1	"	"	"	"	
Propiconazole	<0.12	0.12		ug/g	1	"	"	"	"	
Propoxur	<0.12	0.12		ug/g	1	"	"	"	"	
Pyrethrin I	<0.030	0.030		ug/g	1	"	"	"	"	
Pyrethrin II	<0.015	0.015		ug/g	1	"	"	"	"	
Pyridaben	<0.12	0.12		ug/g	1	"	"	"	"	
Spinosad	<0.12	0.12		ug/g	1	"	"	"	"	
Spiromesifen	<0.12	0.12		ug/g	1	"	"	"	"	

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PESTICIDES
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Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower										
Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Spirotetramat	<0.12	0.12		ug/g	1	B2C1011	03/10/22	03/14/22	LC-MS/MS	
Spiroxamine	<0.12	0.12		ug/g	1	"	"	"	"	
Thiacloprid	<0.12	0.12		ug/g	1	"	"	"	"	
Thiamethoxam	<0.12	0.12		ug/g	1	"	"	"	"	
Trifloxystrobin	<0.12	0.12		ug/g	1	"	"	"	"	

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LEGEND Project: Flower Products

Project Manager:

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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower										
Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2C0817	03/08/22	03/08/22	EPA 6020B	
Cadmium	<0.10	0.10	0.017	ug/g wet	1	"	"	"	"	
Lead	<0.10	0.10	0.016	ug/g wet	1	"	"	"	"	
Mercury	<0.10	0.10	0.016	ug/g wet	1	"	"	03/10/22	"	

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MICRO ANALYSES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Salmonella	<1.0	1.0		CFU/g	1	B2C1014	03/07/22	03/09/22	AOAC 2014.01	
Total Aerobic Bacteria	<250	250		CFU/g	1	B2C1013	03/07/22	03/09/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<150	150		CFU/g	1	"	"	03/08/22	AOAC 2003.01	
Total Coliform	<10	10		CFU/g	1	B2C1018	03/08/22	03/09/22	AOAC 991.14	
Total E.coli	<1.0	1.0		CFU/g	1	"	"	03/10/22	"	
Total Yeast and Mold	10000	100		CFU/g	10	B2C1013	03/07/22	03/10/22	AOAC 997.02	
18.05-11.02.21-R-Flower (3 Bags) (2201073-01RE1) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Total Yeast and Mold	2000	1000		CFU/g	100	B2C1435	03/14/22	03/17/22	AOAC 997.02	
18.05-11.02.21-R-Flower (3 Bags) (2201073-01RE2) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Total Yeast and Mold	4000	1000		CFU/g	100	B2C1435	03/14/22	03/17/22	AOAC 997.02	

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WATER ACTIVITY
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
18.05-11.02.21-R-Flower (3 Bags) (2201073-01) Flower Sampled: 03/03/22 08:30 Received: 03/03/22 10:22										
Water Activity	0.48	0.14		aW	1	B2C0322	03/03/22	03/03/22	NA	

Report Comments:

N1 - IS failure high, result may be biased low.

Notes and Definitions

- QM-11 Spike recovery was outside of laboratory limits
- 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.
- < Less than value listed
- RL Reporting Limit
- CFU/g Colony Forming Units per gram