

May 16, 2022

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

Work Order Number: 2202046

Enclosed are the results of analyses for samples received by the laboratory on 04/28/22 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	LEGEND Project: Flower Products	Work Order #: 2202046
8235 97th Street South	Project Manager:	Date Reported: 05/16/22
Cottage Grove, MN 55016		

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
31.01-11.26.21-R-Flower (6 Bags)	2202046-01	Flower	04/28/22 07:30	04/28/22 10:30

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2202046
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PERCENT MOISTURE
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
% Moisture	12.4	0.100		%	1	B2D2820	04/28/22	04/29/22	% calculation	

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TOTAL CANNABINOIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Average Total CBD	0.0349	0.00400		%	1	B2E0513	05/05/22	05/05/22	HPLC	
Average Total THC	18.0	0.00400		%	1	"	"	"	"	
Cannabidiol (CBD)	<0.00377	0.00377		%	1	B2D2822	04/28/22	04/28/22	"	
Cannabidiolic Acid (CBDA)	0.0386	0.00377		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.760	0.0377		%	10	"	"	04/28/22	"	
THCA-A	19.2	0.377		%	100	"	"	04/28/22	"	
Total CBD	0.0339	0.00708		% by Weight	1	[CALC]	"	04/28/22	"	
Total THC	17.6	0.368		% by Weight	100	"	"	04/28/22	"	
31.01-11.26.21-R-Flower (6 Bags) (2202046-01RE1) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Cannabidiol (CBD)	<0.00400	0.00400		%	1	B2D2822	04/28/22	04/28/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0417	0.00400		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.807	0.0400		%	10	"	"	04/28/22	"	
THCA-A	20.6	0.400		%	100	"	"	04/28/22	"	
Total CBD	0.0365	0.00751		% by Weight	1	[CALC]	"	04/28/22	"	
Total THC	18.8	0.391		% by Weight	100	"	"	04/28/22	"	
31.01-11.26.21-R-Flower (6 Bags) (2202046-01RE2) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Cannabidiol (CBD)	<0.00379	0.00379		%	1	B2D2822	04/28/22	04/28/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0390	0.00379		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.766	0.0379		%	10	"	"	04/28/22	"	
THCA-A	19.2	0.379		%	100	"	"	04/28/22	"	
Total CBD	0.0342	0.00712		% by Weight	1	[CALC]	"	04/28/22	"	
Total THC	17.6	0.371		% by Weight	100	"	"	04/28/22	"	

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TERPENES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
(-)-Alpha-Bisabolol	0.032	0.0040	0.00088	% by Weight	1	B2E0416	05/04/22	05/05/22	EPA 8270E	
(-)-beta-Pinene	0.019	0.0040		% by Weight	1	"	"	"	"	
(-)-Guaiol	<0.0040	0.0040		% by Weight	1	"	"	"	"	
(-)-Isopulegol	<0.0040	0.0040		% by Weight	1	"	"	"	"	
(R)-(+)-Limonene	0.017	0.0040	0.00075	% by Weight	1	"	"	"	"	
alpha-Humulene	0.027	0.0040	0.00029	% by Weight	1	"	"	"	"	
alpha-Pinene	0.0080	0.0040	0.00052	% by Weight	1	"	"	"	"	
alpha-Terpinene	<0.020	0.020		% by Weight	1	"	"	"	"	
beta-Myrcene	0.053	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	0.0071	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	0.033	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	0.060	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
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower										
Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Aflatoxin B1	<2.8	2.8		ng/g	1	B2E0615	05/06/22	05/10/22	LC-MS/MS	
Aflatoxin B2	<2.8	2.8		ng/g	1	"	"	"	"	
Aflatoxin G1	<2.8	2.8		ng/g	1	"	"	"	"	M2
Aflatoxin G2	<5.6	5.6		ng/g	1	"	"	"	"	M2
Ochratoxin A	<19	19		ng/g	1	"	"	"	"	L5a, QM-11, V1

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PESTICIDES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower										
Sampled: 04/28/22 07:30				Received: 04/28/22 10:30						
Acetamiprid	<0.14	0.14		ug/g	1	B2E0502	05/05/22	05/05/22	LC-MS/MS	
Aldicarb	<0.14	0.14		ug/g	1	"	"	"	"	
Azoxystrobin	<0.14	0.14		ug/g	1	"	"	"	"	
Bifenazate	<0.14	0.14		ug/g	1	"	"	"	"	
Bifenthrin	<0.14	0.14		ug/g	1	"	"	05/06/22	"	
Boscalid	<0.14	0.14		ug/g	1	"	"	05/05/22	"	
Carbaryl	<0.14	0.14		ug/g	1	"	"	"	"	
Carbofuran (Furadan)	<0.14	0.14		ug/g	1	"	"	"	"	
Chlorantraniliprole	<0.14	0.14		ug/g	1	"	"	"	"	
Clofentezine	<0.14	0.14		ug/g	1	"	"	"	"	
Cypermethrin	<0.14	0.14		ug/g	1	"	"	"	"	
Diazinon	<0.14	0.14		ug/g	1	"	"	"	"	
Dichlorvos	<0.14	0.14		ug/g	1	"	"	"	"	
Dimethoate	<0.14	0.14		ug/g	1	"	"	"	"	
Dursban	<0.14	0.14		ug/g	1	"	"	"	"	
Ethoprophos	<0.14	0.14		ug/g	1	"	"	"	"	
Etofenprox	<0.14	0.14		ug/g	1	"	"	"	"	M2
Etoxazole	<0.14	0.14		ug/g	1	"	"	"	"	
Fenoxycarb	<0.14	0.14		ug/g	1	"	"	"	"	
Fenpyroximate	<0.14	0.14		ug/g	1	"	"	"	"	
Fonicamid	<0.14	0.14		ug/g	1	"	"	"	"	
Imazalil	<0.14	0.14		ug/g	1	"	"	"	"	
Imidacloprid	<0.14	0.14		ug/g	1	"	"	"	"	
Kresoxim methyl	<0.14	0.14		ug/g	1	"	"	"	"	
Malathion	<0.14	0.14		ug/g	1	"	"	"	"	
Metalaxyl	<0.14	0.14		ug/g	1	"	"	"	"	
Methiocarb	<0.14	0.14		ug/g	1	"	"	"	"	
Methomyl	<0.14	0.14		ug/g	1	"	"	"	"	
Myclobutanil	<0.14	0.14		ug/g	1	"	"	"	"	
Naled	<0.14	0.14		ug/g	1	"	"	"	"	
Oxamyl	<0.14	0.14		ug/g	1	"	"	"	"	
Permethrin	<0.14	0.14		ug/g	1	"	"	05/06/22	"	M2
Phosmet	<0.14	0.14		ug/g	1	"	"	05/05/22	"	
Piperonyl butoxide	<0.14	0.14		ug/g	1	"	"	"	"	
Prallethrin	<0.14	0.14		ug/g	1	"	"	"	"	
Propiconazole	<0.14	0.14		ug/g	1	"	"	"	"	
Propoxur	<0.14	0.14		ug/g	1	"	"	"	"	
Pyrethrin I	<0.036	0.036		ug/g	1	"	"	"	"	
Pyrethrin II	<0.018	0.018		ug/g	1	"	"	"	"	
Pyridaben	<0.14	0.14		ug/g	1	"	"	"	"	
Spinosad	<0.14	0.14		ug/g	1	"	"	"	"	
Spiromesifen	<0.14	0.14		ug/g	1	"	"	"	"	

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PESTICIDES
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Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower										
Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Spirotetramat	<0.14	0.14		ug/g	1	B2E0502	05/05/22	05/05/22	LC-MS/MS	
Spiroxamine	<0.14	0.14		ug/g	1	"	"	"	"	
Thiacloprid	<0.14	0.14		ug/g	1	"	"	"	"	
Thiamethoxam	<0.14	0.14		ug/g	1	"	"	"	"	
Trifloxystrobin	<0.14	0.14		ug/g	1	"	"	"	"	

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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower										
Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2E0426	05/04/22	05/05/22	EPA 6020B	L4
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	"	"	"	"	L4

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MICRO ANALYSES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Salmonella	<1.0	1.0		CFU/g	1	B2E0516	05/02/22	05/04/22	AOAC 2014.01	
Total Aerobic Bacteria	<250	250		CFU/g	1	B2E0515	05/02/22	05/04/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<150	150		CFU/g	1	"	"	05/03/22	AOAC 2003.01	
Total Coliform	<10	10		CFU/g	1	"	"	05/03/22	AOAC 991.14	
Total E.coli	<1.0	1.0		CFU/g	1	"	"	05/04/22	"	
Total Yeast and Mold	1900	1000		CFU/g	100	"	"	05/05/22	AOAC 997.02	

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WATER ACTIVITY
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
31.01-11.26.21-R-Flower (6 Bags) (2202046-01) Flower Sampled: 04/28/22 07:30 Received: 04/28/22 10:30										
Water Activity	0.38	0.14		aW	1	B2E0930	05/09/22	05/10/22	NA	

Report Comments:

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.
- 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.
- < Less than value listed
- RL Reporting Limit
- CFU/g Colony Forming Units per gram