

July 28, 2022

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

Work Order Number: 2203130

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 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 #: 2203130
8235 97th Street South	Project Manager:	Date Reported: 07/28/22
Cottage Grove, MN 55016		

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
48.06-02.28.22-R-Flower (4 Bags)	2203130-01	Flower	07/07/22 09:00	07/07/22 13:12

LeafLine Labs	LEGEND Project: Flower Products	Work Order #: 2203130
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PERCENT MOISTURE
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
% Moisture	12.4	0.100		%	1	B2G1249	07/12/22	07/13/22	% calculation	

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TOTAL CANNABINOIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Average Total CBD	0.0412	0.00400		%	1	B2G1513	07/15/22	07/15/22	HPLC	
Average Total THC	18.8	0.00400		%	1	"	"	"	"	
Cannabidiol (CBD)	<0.00366	0.00366		%	1	B2G0715	07/08/22	07/14/22	"	
Cannabidiolic Acid (CBDA)	0.0461	0.00366		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	1.59	0.0366		%	10	"	"	07/14/22	"	
THCA-A	19.7	0.366		%	100	"	"	07/14/22	"	
Total CBD	0.0404	0.00687		% by Weight	1	[CALC]	"	07/14/22	"	
Total THC	18.9	0.357		% by Weight	100	"	"	07/14/22	"	
48.06-02.28.22-R-Flower (4 Bags) (2203130-01RE1) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Cannabidiol (CBD)	<0.00369	0.00369		%	1	B2G0715	07/08/22	07/14/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0447	0.00369		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	1.42	0.0369		%	10	"	"	07/14/22	"	
THCA-A	19.5	0.369		%	100	"	"	07/14/22	"	
Total CBD	0.0392	0.00693		% by Weight	1	[CALC]	"	"	"	
Total THC	18.6	0.361		% by Weight	100	"	"	07/14/22	"	
48.06-02.28.22-R-Flower (4 Bags) (2203130-01RE2) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Cannabidiol (CBD)	<0.00379	0.00379		%	1	B2G0715	07/08/22	07/15/22	HPLC	
Cannabidiolic Acid (CBDA)	0.0502	0.00379		%	1	"	"	"	"	
Delta-9-Tetrahydrocannabinol (d9-THC)	1.60	0.0379		%	10	"	"	07/15/22	"	
THCA-A	19.6	0.379		%	100	"	"	07/15/22	"	
Total CBD	0.0441	0.00711		% by Weight	1	[CALC]	"	07/15/22	"	
Total THC	18.8	0.370		% by Weight	100	"	"	07/15/22	"	

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TERPENES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
(-)-Alpha-Bisabolol	<0.0080	0.0080	0.0018	% by Weight	2	B2G0805	07/08/22	07/09/22	EPA 8270E	
(-)-beta-Pinene	0.072	0.0080		% by Weight	2	"	"	"	"	
(-)-Guaiol	<0.0080	0.0080		% by Weight	2	"	"	"	"	
(-)-Isopulegol	<0.0080	0.0080		% by Weight	2	"	"	"	"	
(R)-(+)-Limonene	0.18	0.0080	0.0015	% by Weight	2	"	"	"	"	
alpha-Humulene	0.025	0.0080	0.00058	% by Weight	2	"	"	"	"	
alpha-Pinene	0.074	0.0080	0.0010	% by Weight	2	"	"	"	"	
alpha-Terpinene	<0.040	0.040		% by Weight	2	"	"	"	"	
beta-Myrcene	0.63	0.0080	0.00062	% by Weight	2	"	"	"	"	
Camphene	<0.0080	0.0080		% by Weight	2	"	"	"	"	
delta-3-carene	<0.020	0.020		% by Weight	2	"	"	"	"	
gamma-Terpinene	<0.0080	0.0080		% by Weight	2	"	"	"	"	
Geraniol	<0.0080	0.0080	0.0024	% by Weight	2	"	"	"	"	
Linalool	0.083	0.0080	0.00084	% by Weight	2	"	"	"	"	
Nerolidol	0.014	0.0080		% by Weight	2	"	"	"	"	
Ocimene	0.017	0.0080		% by Weight	2	"	"	"	"	
p-Isopropyltoluene (p-Cymene)	<0.020	0.020		% by Weight	2	"	"	"	"	
Terpinolene	0.017	0.0080	0.00094	% by Weight	2	"	"	"	"	
trans-Caryophyllene	0.069	0.0080	0.00098	% by Weight	2	"	"	"	"	

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AFLATOXINS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower										
Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Aflatoxin B1	<3.0	3.0		ng/g	1	B2G1135	07/11/22	07/15/22	LC-MS/MS	
Aflatoxin B2	<3.0	3.0		ng/g	1	"	"	"	"	L5a
Aflatoxin G1	<3.0	3.0		ng/g	1	"	"	"	"	A-01
Aflatoxin G2	<6.0	6.0		ng/g	1	"	"	"	"	
Ochratoxin A	<20	20		ng/g	1	"	"	"	"	L5a, V1

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PESTICIDES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower										
Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Acetamiprid	<0.16	0.16		ug/g	1	B2G1127	07/11/22	07/15/22	LC-MS/MS	
Aldicarb	<0.16	0.16		ug/g	1	"	"	"	"	
Azoxystrobin	<0.16	0.16		ug/g	1	"	"	"	"	
Bifenazate	<0.16	0.16		ug/g	1	"	"	"	"	
Bifenthrin	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Boscalid	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Carbaryl	<0.16	0.16		ug/g	1	"	"	"	"	
Carbofuran (Furadan)	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Chlorantraniliprole	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Clofentezine	<0.16	0.16		ug/g	1	"	"	"	"	
Cypermethrin	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Diazinon	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Dichlorvos	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Dimethoate	<0.24	0.24		ug/g	1	"	"	"	"	A-01a, R-01, V9
Dursban	<0.16	0.16		ug/g	1	"	"	"	"	
Ethoprophos	<0.24	0.24		ug/g	1	"	"	"	"	A-01a, R-01, V9
Etofenprox	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Etoxazole	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Fenoxycarb	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Fenpyroximate	<0.16	0.16		ug/g	1	"	"	"	"	
Fonicamid	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Imazalil	<0.24	0.24		ug/g	1	"	"	"	"	A-01a, R-01, V9
Imidacloprid	<0.16	0.16		ug/g	1	"	"	"	"	
Kresoxim methyl	<0.16	0.16		ug/g	1	"	"	"	"	
Malathion	<0.16	0.16		ug/g	1	"	"	"	"	
Metalaxyl	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Methiocarb	<0.16	0.16		ug/g	1	"	"	"	"	
Methomyl	<0.16	0.16		ug/g	1	"	"	"	"	
Myclobutanil	<0.16	0.16		ug/g	1	"	"	"	"	
Naled	<0.16	0.16		ug/g	1	"	"	"	"	
Oxamyl	<0.16	0.16		ug/g	1	"	"	"	"	
Permethrin	<0.16	0.16		ug/g	1	"	"	"	"	
Phosmet	<0.16	0.16		ug/g	1	"	"	"	"	
Piperonyl butoxide	<0.16	0.16		ug/g	1	"	"	"	"	
Prallethrin	<0.16	0.16		ug/g	1	"	"	"	"	
Propiconazole	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Propoxur	<0.16	0.16		ug/g	1	"	"	"	"	
Pyrethrin I	<0.040	0.040		ug/g	1	"	"	"	"	
Pyrethrin II	<0.020	0.020		ug/g	1	"	"	"	"	
Pyridaben	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Spinosad	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9

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PESTICIDES
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Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower										
Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Spiromesifen	<0.16	0.16		ug/g	1	B2G1127	07/11/22	07/15/22	LC-MS/MS	
Spirotetramat	<0.24	0.24		ug/g	1	"	"	"	"	A-01a, R-01, V9
Spiroxamine	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Thiacloprid	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Thiamethoxam	<0.24	0.24		ug/g	1	"	"	"	"	R-01, V9
Trifloxystrobin	<0.16	0.16		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
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Arsenic	<0.25	0.25	0.074	ug/g wet	1	B2G1243	07/12/22	07/12/22	EPA 6020B	
Cadmium	<0.10	0.10	0.017	ug/g wet	1	"	"	"	"	
Mercury	<0.10	0.10	0.016	ug/g wet	1	"	"	"	"	N5
48.06-02.28.22-R-Flower (4 Bags) (2203130-01RE1) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Lead	<0.010	0.010	0.0016	ug/g wet	0.1	B2G2629	07/26/22	07/26/22	EPA 6020B	
48.06-02.28.22-R-Flower (4 Bags) (2203130-01RE2) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Lead	<0.010	0.010	0.0016	ug/g wet	0.1	B2G2629	07/12/22	07/26/22	EPA 6020B	

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MICRO ANALYSES
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Salmonella	<1.0	1.0		CFU/g	1	B2G1404	07/13/22	07/16/22	AOAC 2014.01	
Total Aerobic Bacteria	<2200	2200		CFU/g	10	B2G1403	07/13/22	07/16/22	AOAC 990.12	
Total Bile Tolerant Gram-Negative Bacteria	<130	130		CFU/g	1	"	"	"	AOAC 2003.01	
Total Coliform	<9.0	9.0		CFU/g	1	"	"	"	AOAC 991.14	
Total E.coli	<0.90	0.90		CFU/g	1	"	"	"	"	
Total Yeast and Mold	<900	900		CFU/g	100	"	"	"	AOAC 997.02	

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WATER ACTIVITY
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
48.06-02.28.22-R-Flower (4 Bags) (2203130-01) Flower Sampled: 07/07/22 09:00 Received: 07/07/22 13:12										
Water Activity	0.61	0.14		aW	1	B2G1934	07/19/22	07/19/22	NA	

Report Comments:

Notes and Definitions

- V9 CCV recovery was below method acceptance limits.
- 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.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-11 Spike recovery was outside of laboratory limits
- N5 The minimum reporting limit verification check did not meet the method acceptance limit.
- 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.
- A-01a Reporting Limit Verification (RLV) recovery was above laboratory limits. No detects in the associated samples.
- A-01 Reporting limit verification (RLV) recovery was above laboratory limits. Analyte not detected in any of the associated samples.
- < Less than value listed
- RL Reporting Limit
- CFU/g Colony Forming Units per gram