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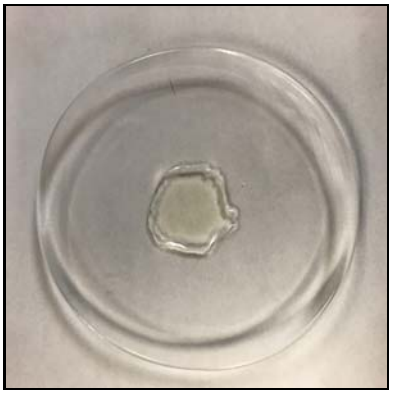
88 Empire Dr.
St. Paul MN 55103
Tel. 651-642-1150
Fax. 651-642-1239

Certificate of Analysis

Client Name:	Frosty Roots Farm	**Matrix:**	Tincture
Client Address:	7739 Ceder Rd, Milaca, MN 56353	**Date Received:**	10/5/2020 1:45:00PM
Sample ID:	CBD Tincture 1500 MG	**Lab Sample ID:**	2003960-05
Lot/Batch #:		**Date of Report:**	10/13/2020 10:40:56AM

Analysis	Requested (Yes/No)
Cannabinoid Profile	Yes
Terpene Profile	No
Aflatoxins	No
Heavy Metals	No
Residual Solvents	No
Microbial Testing	Yes
Pesticides	Yes


Sample, packaged


Sample, actual

Cannabinoid Profile 2003960-05 CBD Tincture 1500 MG

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
Cannabichromene (CBC)	0.0904	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	
Cannabidiol (CBD)	5.10	0.174	% by Weight	HPLC	10/9/20 7:38 pm	
Cannabidiolic Acid (CBDA)	0.00314	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	
Cannabigerol (CBG)	0.105	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	
Cannabigerolic Acid (CBGA)	<0.00174	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	T-8
Cannabinol (CBN)	0.00936	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.209	0.0174	% by Weight	HPLC	10/9/20 7:32 pm	
THCA-A	<0.00174	0.00174	% by Weight	HPLC	10/9/20 7:25 pm	
Total CBG	0.105	0.00326	% by Weight	HPLC	10/9/20 7:25 pm	T-8
Total CBD	5.10	0.175	% by Weight	HPLC	10/9/20 7:38 pm	
Total THC	0.209	0.0189	% by Weight	HPLC	10/9/20 7:32 pm	

Microbial Testing 2003960-05 CBD Tincture 1500 MG

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
Salmonella	<1.0	1.0	CFU/g	AOAC 2014.01	10/8/20 9:17 am	
Total Aerobic Bacteria	<110	110	CFU/g	AOAC 990.12	10/8/20 9:17 am	
Total Bile Tolerant Gram-Negative Bac	<64	64	CFU/g	AOAC 2003.01	10/7/20 9:17 am	
Total Coliform	<4.3	4.3	CFU/g	AOAC 991.14	10/7/20 9:17 am	
Total Yeast and Mold	<4.3	4.3	CFU/g	AOAC 997.02	10/9/20 9:17 am	
Total E.coli	<4.3	4.3	CFU/g	AOAC 991.14	10/8/20 9:17 am	

Sarah Smestad - Chemist II/Client Manager I

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Pesticides **2003960-05** **CBD Tincture 1500 MG**

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
3-Hydroxycarbofuran	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Bendiocarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	L2
Bifenazate	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Carbofuran (Furadan)	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Chloroxuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Chlorotoluron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Cycluron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Cymoxanil	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Diethofencarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Diuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Fenobucarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Fenoxycarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Fenuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Indoxacarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Iprovalicarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Isoprocarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Isoproturon	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Linuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Metobromuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Monolinuron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Pirimicarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Promecarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Proproxur	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Siduron	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Thiobencarb	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Avermectin (abamectin)	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Acequinocyl	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Bifentrhin	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Cyfluthrin	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Etoxazole	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Imazalil	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Imidacloprid	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Azoxystrobin	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Paclobutrazol	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Spinetoram (J&L)	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Spinosad D	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Spiromesifen	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Spirotetramat	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Tebufenpyrad	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Pyrethrin I	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	
Pyrethrin II	<0.17	0.17	ug/g	LC-MS/MS	10/7/20 6:00 pm	

Sample Narrative: **2003960-05** **CBD Tincture 1500 MG**

Based on 28.35 g per container,
1450 mg CBD per container

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Notes and Definitions

CFU/g	Colony Forming Units per Gram
HPLC	High-Performance Liquid Chromatography
MS	Mass Spectrometry
<	Less than value listed
RL	Reporting Limit
NA	Not Applicable
L2	The associated blank spike recovery was below laboratory acceptance limits.
T-8	Laboratory not accredited for this analysis.

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