LEGEND Technical Services, Inc.

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:**	3/17/2020 12:00:00PM
Sample ID:	CBD Tincture Red	**Lab Sample ID:**	2001211-02
Lot/Batch #:		**Date of Report:**	3/30/2020 10:57:57AM

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 2001211-02 CBD Tincture Red

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
Cannabichromene (CBC)	0.0617	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
Cannabidiol (CBD)	2.09	0.0400	% by Weight	HPLC	3/19/20 2:18 pm	
Cannabidiolic Acid (CBDA)	0.00593	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
Cannabigerol (CBG)	0.0441	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
Cannabinol (CBN)	0.00926	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
Delta-9-Tetrahydrocannabinol (d9-THC)	0.0986	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
THCA-A	<0.00200	0.00200	% by Weight	HPLC	3/19/20 2:11 pm	
Total CBD	2.10	0.0418	% by Weight	HPLC	3/19/20 2:18 pm	
Total THC	0.0986	0.00375	% by Weight	HPLC	3/19/20 2:11 pm	

Microbial Testing 2001211-02 CBD Tincture Red

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
Salmonella	<1.0	1.0	CFU/g	AOAC 2014.01	3/25/20 9:04 am	
Total Aerobic Bacteria	<120	120	CFU/g	AOAC 990.12	3/25/20 8:59 am	
Total Bile Tolerant Gram-Negative Bac	<75	75	CFU/g	AOAC 2003.01	3/24/20 8:59 am	
Total Coliform	<5.0	5.0	CFU/g	AOAC 991.14	3/24/20 8:59 am	
Total Yeast and Mold	<5.0	5.0	CFU/g	AOAC 997.02	3/26/20 8:59 am	
Total E.coli	<5.0	5.0	CFU/g	AOAC 991.14	3/25/20 8:59 am	

Sarah Smestad - Chemist II/Client Manager I

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Pesticides **2001211-02** **CBD Tincture Red**

Analyte	Result	RL	Units	Analysis Method	Date Analyzed	Notes
3-Hydroxycarbofuran	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Bendiocarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Bifenazate	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Carbofuran (Furadan)	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Chloroxuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Chlorotoluron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Cycluron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Cymoxanil	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Diethofencarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Diuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Fenobucarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Fenoxycarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Fenuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Indoxacarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Iprovalicarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Isoprocarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Isoproturon	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Linuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Metobromuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Monolinuron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Pirimicarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Promecarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Proproxur	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Siduron	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Thiobencarb	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Avermectin (abamectin)	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Acequinocyl	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Bifentrhin	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Cyfluthrin	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Etoxazole	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Imazalil	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Imidacloprid	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Azoxystrobin	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Paclobutrazol	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Spinetoram (J&L)	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Spinosad D	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Spiromesifen	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Spirotetramat	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Tebufenpyrad	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Pyrethrin I	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	
Pyrethrin II	<0.18	0.18	ug/g	LC-MS/MS	3/18/20 7:00 pm	

Sample Narrative: **2001211-02** **CBD Tincture Red**

Based on 26.5 g tincture per container,
Total CBD = 557 mg 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

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