



# Green Leaf Lab®

12025 NE Marx St. Portland, OR 97220  
503-253-3511 / www.greenleflabs.com  
License#: 10029074C70

## Quality Control Testing Official Report

### 1000 mg CBD Isolate Tincture

Sample ID: G0L0538-02

Matrix: Hemp Products

Test ID: 5013447

Source ID:

Date Sampled: 12/30/20

Date Accepted: 12/30/20



High Tide Holistics INC

### Results at a Glance

Total THC : <LOQ (0.0545%) %

Total CBD : 3.459 %

Residual Solvent Analysis : PASS



*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



### 1000 mg CBD Isolate Tincture

Sample ID: G0L0538-02

Matrix: Hemp Products

Test ID: 5013447

Source ID:

Date Sampled: 12/30/20

Date Accepted: 12/30/20



High Tide Holistics INC

### Potency Analysis

Date/Time Extracted: 12/31/20 11:53

Analysis Method/SOP: 215

Batch Identification: 2053043

Cannabinoids	LOQ (%)	mg/g	Cannabinoids Profile
Total THC	0.0545	< LOQ	
Total CBD	0.0568	34.59	
THCA	0.0787	< LOQ	
delta 9-THC	0.0545	< LOQ	
THCV	0.0534	< LOQ	
THCVA	0.0800	< LOQ	
CBD	0.0568	34.59	
CBDA	0.0783	< LOQ	
CBDV	0.0550	< LOQ	
CBDVA	0.0755	< LOQ	
CBN	0.0494	< LOQ	
CBG	0.0574	< LOQ	
CBGA	0.0761	< LOQ	
CBC	0.0721	< LOQ	

Total THC = delta 9-THC + (THCA \* 0.877)

Total CBD = CBD + (CBDA \* 0.877)

Total CBG = CBG + (CBGA \* 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



ISO 17025  
ACCREDITED  
LABORATORY

*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



### 1000 mg CBD Isolate Tincture

Sample ID: G0L0538-02

Matrix: Hemp Products

Test ID: 5013447

Source ID:

Date Sampled: 12/30/20

Date Accepted: 12/30/20



High Tide Holistics INC

### Residual Solvents

Date/Time Extracted: 12/31/20 08:05

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units
1,4-Dioxane	< LOQ	380		50.00	ppm
2-Butanol	< LOQ	5000		1000	ppm
2-Ethoxyethanol	< LOQ	160		80.00	ppm
2-Propanol (IPA)	< LOQ	5000		1000	ppm
Acetone	< LOQ	5000		1000	ppm
Acetonitrile	< LOQ	410		50.00	ppm
Benzene	< LOQ	2		1.000	ppm
Butanes	< LOQ	5000		1000	ppm
Cumene	< LOQ	70		35.00	ppm
Cyclohexane	< LOQ	3880		50.00	ppm
Dichloromethane	< LOQ	600		50.00	ppm
Ethyl acetate	< LOQ	5000		1000	ppm
Ethyl benzene	< LOQ	2170		35.00	ppm
Ethyl ether	< LOQ	5000		1000	ppm
Ethylene glycol	< LOQ	620		310.0	ppm
Ethylene oxide	< LOQ	50		25.00	ppm
Heptane	< LOQ	5000		1000	ppm
Hexanes	< LOQ	290		50.00	ppm
Isopropyl acetate	< LOQ	5000		1000	ppm
Methanol	< LOQ	3000		1000	ppm
Pentanes	< LOQ	5000		1000	ppm
Propane	< LOQ	5000		1000	ppm
Tetrahydrofuran	< LOQ	720		50.00	ppm
Toluene	< LOQ	890		50.00	ppm
Xylenes	< LOQ	2170		50.00	ppm

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



### Quality Control Potency

Batch: 2053043 - 215-Products

Blank(2053043-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0221	%		12/31/20 11:53	01/03/21 14:38
delta 9-THC	< LOQ	0.0153	%		12/31/20 11:53	01/03/21 14:38
THCV	< LOQ	0.0150	%		12/31/20 11:53	01/03/21 14:38
THCVA	< LOQ	0.0224	%		12/31/20 11:53	01/03/21 14:38
CBD	< LOQ	0.0159	%		12/31/20 11:53	01/03/21 14:38
CBDA	< LOQ	0.0220	%		12/31/20 11:53	01/03/21 14:38
CBDV	< LOQ	0.0154	%		12/31/20 11:53	01/03/21 14:38
CBDVA	< LOQ	0.0212	%		12/31/20 11:53	01/03/21 14:38
CBN	< LOQ	0.0138	%		12/31/20 11:53	01/03/21 14:38
CBG	< LOQ	0.0161	%		12/31/20 11:53	01/03/21 14:38
CBGA	< LOQ	0.0213	%		12/31/20 11:53	01/03/21 14:38
CBC	< LOQ	0.0202	%		12/31/20 11:53	01/03/21 14:38

Reference(2053043-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
delta 9-THC	90.8	0.0153	%	80-120	12/31/20 11:53	01/03/21 15:01
CBD	94.9	0.0159	%	80-120	12/31/20 11:53	01/03/21 15:01

### Solvent Analysis

Batch: 2053036 - 205

Blank(2053036-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Acetonitrile	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
Benzene	< LOQ	1.000	ppm		12/31/20 08:05	12/31/20 18:27
Butanes	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
2-Butanol	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Cumene	< LOQ	35.00	ppm		12/31/20 08:05	12/31/20 18:27
Cyclohexane	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
Dichloromethane	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
1,4-Dioxane	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
2-Ethoxyethanol	< LOQ	80.00	ppm		12/31/20 08:05	12/31/20 18:27
Ethyl acetate	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Ethyl benzene	< LOQ	35.00	ppm		12/31/20 08:05	12/31/20 18:27
Ethylene glycol	< LOQ	310.0	ppm		12/31/20 08:05	12/31/20 18:27
Ethylene oxide	< LOQ	25.00	ppm		12/31/20 08:05	12/31/20 18:27
Ethyl ether	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Heptane	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Hexanes	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27



*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



### Quality Control Solvent Analysis (Continued)

Batch: 2053036 - 205 (Continued)

Blank(2053036-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Isopropyl acetate	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Methanol	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Pentanes	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Propane	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
2-Propanol (IPA)	< LOQ	1000	ppm		12/31/20 08:05	12/31/20 18:27
Tetrahydrofuran	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
Toluene	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27
Xylenes	< LOQ	50.00	ppm		12/31/20 08:05	12/31/20 18:27

LCS(2053036-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	91.3	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Acetonitrile	88.1	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Benzene	73.2	1.000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
n-Butane	86.6	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Butanes	86.3	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
2-Butanol	85.0	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Cumene	82.5	35.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Cyclohexane	76.7	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Dichloromethane	85.0	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
1,4-Dioxane	94.7	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
2-Ethoxyethanol	83.4	80.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Ethyl acetate	77.5	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Ethyl benzene	83.6	35.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Ethylene glycol	112	310.0	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Ethylene oxide	83.8	25.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Ethyl ether	85.6	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Heptane	86.0	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
n-Hexane	86.5	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Hexanes	86.2	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
iso-Butane	86.1	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Isopropyl acetate	86.8	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
iso-Pentane	86.6	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Methanol	64.9	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
2-Methylpentane	86.1	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
3-Methylpentane	86.6	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
neo-Pentane	88.0	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
n-Pentane	90.3	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Pentanes	88.3	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51



*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.



### Quality Control Solvent Analysis (Continued)

Batch: 2053036 - 205 (Continued)

LCS(2053036-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Propane	83.6	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
2-Propanol (IPA)	82.6	1000	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Tetrahydrofuran	86.1	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51
Toluene	89.0	50.00	ppm	70-130	12/31/20 08:05	12/31/20 14:51



*Russell Kuhfeld*

Russell Kuhfeld  
Quality Officer - 1/4/2021

All QC samples met acceptance criteria of the method; data available upon request. These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of Green Leaf Lab.

This is for informational testing and is not compliance testing. Lab results apply to the sample as received.