



Green Leaf Lab[®]

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Quality Control Testing Official Report

3000 mg CBD Isolate Tincture

Sample ID: G0L0538-03

Matrix: Hemp Products

Test ID: 5013448

Source ID:

Date Sampled: 12/30/20

Date Accepted: 12/30/20



High Tide Holistics INC

Results at a Glance

Total THC : <LOQ (0.2234%) %

Total CBD : 10.25 %

Residual Solvent Analysis : PASS



Russell Kuhfeld

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Quality Officer - 1/4/2021

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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	0.2234	< LOQ	
Total CBD	0.2329	102.5	
THCA	0.3225	< LOQ	
delta 9-THC	0.2234	< LOQ	
THCV	0.2191	< LOQ	
THCVA	0.3279	< LOQ	
CBD	0.2329	102.5	
CBDA	0.3211	< LOQ	
CBDV	0.2255	< LOQ	
CBDVA	0.3096	< LOQ	
CBN	0.2025	< LOQ	
CBG	0.2355	< LOQ	
CBGA	0.3122	< LOQ	
CBC	0.2954	< 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

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Matrix: Hemp Products

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Source ID:

Date Sampled: 12/30/20

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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**.



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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



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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



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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



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