



### 1000mg Full Spectrum CBD Tincture

Sample ID: G2C0243-01

Matrix: Hemp Products

Test ID: 5026024

Source ID:

Date Sampled: 03/12/22

Date Accepted: 03/12/22

Batch Lot ID: 3B01



**High Tide Holistics Inc.**  
sales@hightideholistics.com

### Results at a Glance

Total THC : <LOQ (0.0014%) %

Total CBD : 3.540 %

Residual Solvent Analysis : PASS

Total Terpenes : 0.094 % PASS



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Chief Science Officer - 3/17/2022



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sales@hightideholistics.com

### Potency Analysis

Date/Time Extracted: 03/14/22 10:35

Analysis Method/SOP: 215

Batch Identification: 2212004

Cannabinoids	LOQ (%)	mg/g	Cannabinoids Profile	
Total THC	0.0014	< LOQ		
Total CBD	0.0014	35.4		
THCA	0.0014	< LOQ		
delta 9-THC	0.0014	< LOQ		
delta 8-THC	0.0543	1.557		
THCV	0.0424	< LOQ		
THCVA	0.0634	< LOQ		
CBD	0.0014	35.4		
CBDA	0.0014	< LOQ		
CBDV	0.0436	0.519		
CBDVA	0.0599	< LOQ		
CBN	0.0392	< LOQ		
CBG	0.0456	0.481		
CBGA	0.0604	< LOQ		
CBC	0.0572	2.411		

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.



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### Terpene Analysis by GCMS

Date/Time Extracted: 03/15/22 09:15

Analysis Method/SOP: 204

Date/Time Analyzed: 03/15/22 17:52

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
3-Carene	< LOQ	0.004	0.010	mg/g	alpha-Bisabolol	0.65	0.004	0.010	mg/g
alpha-Cedrene	< LOQ	0.004	0.010	mg/g	alpha-Humulene	< LOQ	0.004	0.010	mg/g
alpha-Pinene	< LOQ	0.004	0.010	mg/g	alpha-Terpinene	< LOQ	0.004	0.010	mg/g
A-Terpineol	< LOQ	0.004	0.010	mg/g	beta-Caryophyllene	0.3	0.004	0.010	mg/g
beta-Myrcene	< LOQ	0.004	0.010	mg/g	beta-Pinene	< LOQ	0.004	0.010	mg/g
Camphene	< LOQ	0.004	0.010	mg/g	Camphor	< LOQ	0.004	0.010	mg/g
Caryophyllene Oxide	< LOQ	0.004	0.010	mg/g	Cedrol	< LOQ	0.004	0.010	mg/g
Cis-beta-Farnesene	< LOQ	0.004	0.010	mg/g	cis-Nerolidol	< LOQ	0.004	0.010	mg/g
Endo-fenchyl alcohol	< LOQ	0.004	0.010	mg/g	Eucalyptol	< LOQ	0.004	0.010	mg/g
gamma-Terpinene	< LOQ	0.004	0.010	mg/g	Geraniol	< LOQ	0.004	0.010	mg/g
Geranyl acetate	< LOQ	0.004	0.010	mg/g	Guaiol	< LOQ	0.004	0.010	mg/g
Isoborneol	< LOQ	0.004	0.010	mg/g	Isopulegol	< LOQ	0.004	0.010	mg/g
Limonene	< LOQ	0.004	0.010	mg/g	Linalool	< LOQ	0.004	0.010	mg/g
Pulegone	< LOQ	0.004	0.010	mg/g	Sabinene	< LOQ	0.004	0.010	mg/g
Sabinene hydrate	< LOQ	0.004	0.010	mg/g	Terpinolene	< LOQ	0.004	0.010	mg/g
trans-Nerolidol	< LOQ	0.004	0.010	mg/g	Valencene	< LOQ	0.004	0.010	mg/g
<b>Total Terpenes</b>	<b>0.94</b>	<b>0.004</b>	<b>0.010</b>	mg/g					

ND - Compound not detected

<LOQ - Results below the Limit of Quantitation



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Source ID:

Date Sampled: 03/12/22

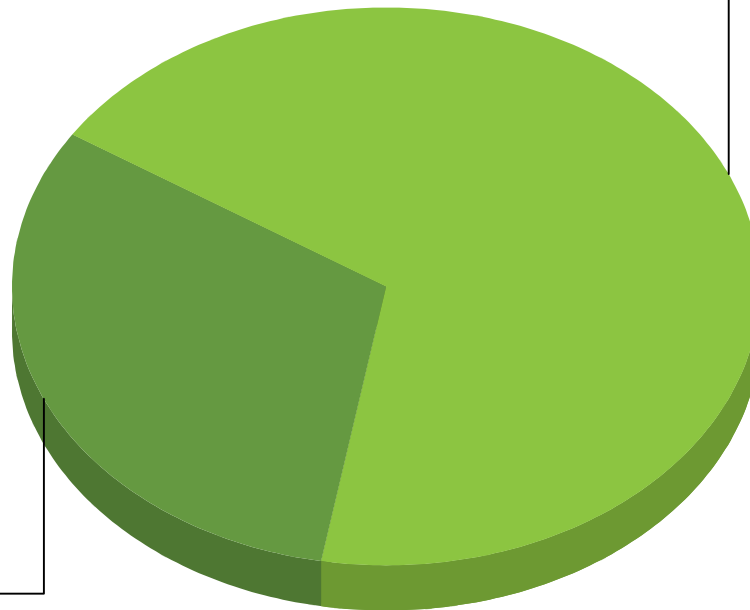
Date Accepted: 03/12/22

Batch Lot ID: 3B01



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sales@hightideholistics.com

## Terpene Profile



### Percentage of Total Terpenes Identified



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### Residual Solvents

Date/Time Extracted: 03/15/22 12:30

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units	Notes
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: 2212004 - 215-Products

Blank(2212004-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		03/14/22 10:35	03/14/22 17:37	
delta 9-THC	< LOQ	0.0005	%		03/14/22 10:35	03/14/22 17:37	
delta 8-THC	< LOQ	0.0192	%		03/14/22 10:35	03/14/22 17:37	
THCV	< LOQ	0.0150	%		03/14/22 10:35	03/14/22 17:37	
THCVA	< LOQ	0.0224	%		03/14/22 10:35	03/14/22 17:37	
CBD	< LOQ	0.0005	%		03/14/22 10:35	03/14/22 17:37	
CBDA	< LOQ	0.0005	%		03/14/22 10:35	03/14/22 17:37	
CBDV	< LOQ	0.0154	%		03/14/22 10:35	03/14/22 17:37	
CBDVA	< LOQ	0.0212	%		03/14/22 10:35	03/14/22 17:37	
CBN	< LOQ	0.0138	%		03/14/22 10:35	03/14/22 17:37	
CBG	< LOQ	0.0161	%		03/14/22 10:35	03/14/22 17:37	
CBGA	< LOQ	0.0213	%		03/14/22 10:35	03/14/22 17:37	
CBC	< LOQ	0.0202	%		03/14/22 10:35	03/14/22 17:37	

Reference(2212004-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
delta 9-THC	102	0.0005	%	80-120	03/14/22 10:35	03/14/22 18:00	
CBD	100	0.0005	%	80-120	03/14/22 10:35	03/14/22 18:00	

### Solvent Analysis

Batch: 2212019 - 205

Blank(2212019-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Acetonitrile	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
Benzene	< LOQ	1.000	ppm		03/15/22 12:30	03/15/22 23:05	
Butanes	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
2-Butanol	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Cumene	< LOQ	35.00	ppm		03/15/22 12:30	03/15/22 23:05	
Cyclohexane	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
Dichloromethane	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
1,4-Dioxane	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
2-Ethoxyethanol	< LOQ	80.00	ppm		03/15/22 12:30	03/15/22 23:05	
Ethyl acetate	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Ethyl benzene	< LOQ	35.00	ppm		03/15/22 12:30	03/15/22 23:05	
Ethylene glycol	< LOQ	310.0	ppm		03/15/22 12:30	03/15/22 23:05	
Ethylene oxide	< LOQ	25.00	ppm		03/15/22 12:30	03/15/22 23:05	
Ethyl ether	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Heptane	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	



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### Quality Control Solvent Analysis (Continued)

Batch: 2212019 - 205 (Continued)

Blank(2212019-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Hexanes	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
Isopropyl acetate	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Methanol	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Pentanes	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Propane	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
2-Propanol (IPA)	< LOQ	1000	ppm		03/15/22 12:30	03/15/22 23:05	
Tetrahydrofuran	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
Toluene	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	
Xylenes	< LOQ	50.00	ppm		03/15/22 12:30	03/15/22 23:05	

LCS(2212019-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	90.6	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Acetonitrile	92.4	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Benzene	92.4	1.000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Butanes	85.5	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
2-Butanol	84.0	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Cumene	94.8	35.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Cyclohexane	88.7	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Dichloromethane	91.4	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
1,4-Dioxane	92.7	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
2-Ethoxyethanol	73.6	80.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Ethyl acetate	90.1	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Ethyl benzene	93.0	35.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Ethylene glycol	99.7	310.0	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Ethylene oxide	89.7	25.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Ethyl ether	88.3	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Heptane	89.8	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Hexanes	87.5	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Isopropyl acetate	88.5	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Methanol	90.3	1000	ppm	40-120	03/15/22 12:30	03/15/22 19:59	
Pentanes	86.2	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Propane	81.1	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
2-Propanol (IPA)	88.9	1000	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Tetrahydrofuran	90.5	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	
Toluene	92.0	50.00	ppm	60-120	03/15/22 12:30	03/15/22 19:59	



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### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 and following Sampling Plan FN117.  
Quality Control samples were tested as received.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
  - BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
  - BLK Analyte detected in method blank, but not associated samples.
  - BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
  - BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
  - C Interference due to co-elution
  - CBD Interference due to co-elution
  - CV1 CBD matrix interference on GC Pest chromatography
  - CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
  - INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
  - ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
  - ISL Internal Standard concentration is above acceptance criteria.
  - MSH Internal Standard concentration is below acceptance criteria.
  - MSI Matrix Spike High - Matrix Spike recovery above method limits.
  - MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
  - TPP
  - U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- Internal Standard concentration outside control limit due to matrix interference



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