



Green Leaf Lab®

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503-253-3511 / www.greenleflabs.com
License#: 10029074C70

Quality Control Testing Official Report

3000mg Full Spectrum CBD Tincture

Sample ID: G2C0243-03

Matrix: Hemp Products

Test ID: 5026025

Source ID:

Date Sampled: 03/12/22

Date Accepted: 03/12/22

Batch Lot ID: 3B03



High Tide Holistics Inc.
sales@hightideholistics.com

Results at a Glance

Total THC : 0.1647 %

Total CBD : 10.55 %

Residual Solvent Analysis : PASS

Total Terpenes : 0.173 % PASS



**ISO 17025
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LABORATORY**

Eric Wendt
Chief Science Officer - 3/17/2022

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3000mg Full Spectrum CBD Tincture

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Batch Lot ID: 3B03



High Tide Holistics Inc.
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 | 0.0059 | 1.647 | | |
| Total CBD | 0.0059 | 105.5 | | |
| THCA | 0.0059 | < LOQ | | |
| delta 9-THC | 0.0059 | 1.647 | | |
| delta 8-THC | 0.2253 | < LOQ | | |
| THCV | 0.1758 | < LOQ | | |
| THCVA | 0.2632 | < LOQ | | |
| CBD | 0.0059 | 105.5 | | |
| CBDA | 0.0059 | < LOQ | | |
| CBDV | 0.0452 | 0.56 | | |
| CBDVA | 0.2485 | < LOQ | | |
| CBN | 0.1625 | < LOQ | | |
| CBG | 0.0472 | 0.672 | | |
| CBGA | 0.2505 | < LOQ | | |
| CBC | 0.0593 | 3.489 | | |

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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High Tide Holistics Inc.
sales@hightideholistics.com

Terpene Analysis by GCMS

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

Analysis Method/SOP: 204

Date/Time Analyzed: 03/15/22 18:11

| Analyte | Result | LOD | LOQ | Units | Analyte | Result | LOD | LOQ | Units |
|-----------------------|-------------|--------------|--------------|-------|--------------------|--------|-------|-------|-------|
| 3-Carene | < LOQ | 0.004 | 0.010 | mg/g | alpha-Bisabolol | 1 | 0.004 | 0.010 | mg/g |
| alpha-Cedrene | < LOQ | 0.004 | 0.010 | mg/g | alpha-Humulene | 0.09 | 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 | 0.46 | 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 | 0.17 | 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 |
| Total Terpenes | 1.73 | 0.004 | 0.010 | mg/g | | | | | |

ND - Compound not detected

<LOQ - Results below the Limit of Quantitation



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3000mg Full Spectrum CBD Tincture

Sample ID: G2C0243-03

Matrix: Hemp Products

Test ID: 5026025

Source ID:

Date Sampled: 03/12/22

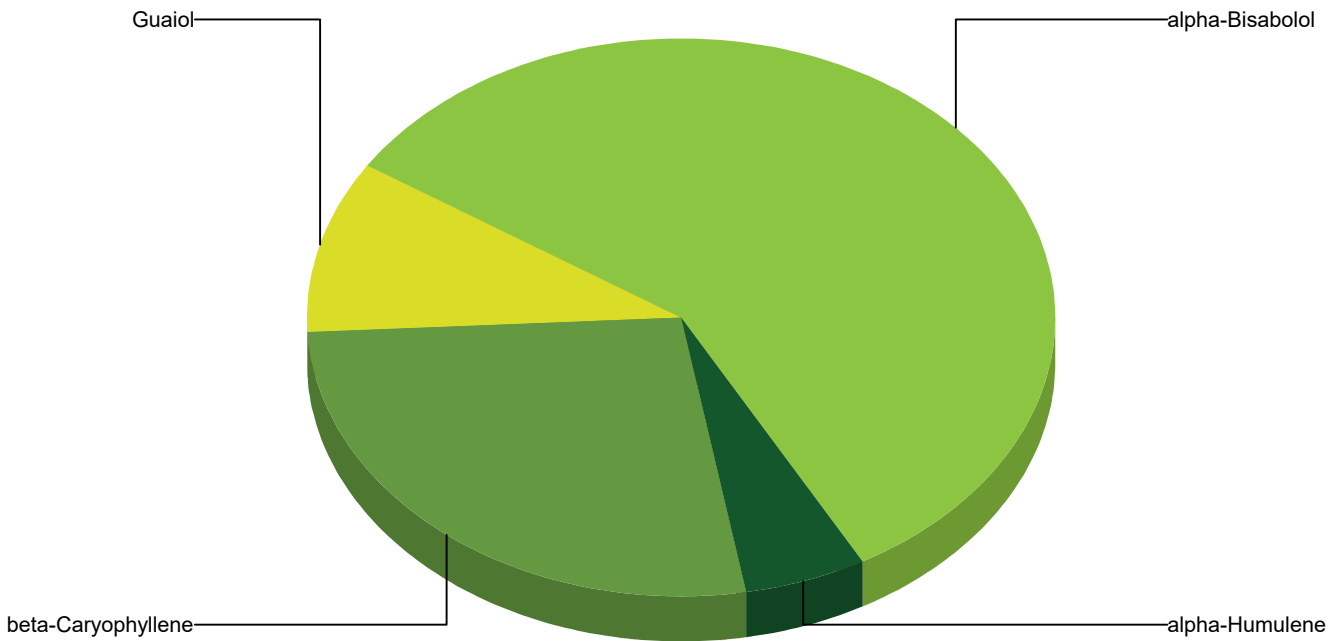
Date Accepted: 03/12/22

Batch Lot ID: 3B03



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Terpene Profile



Percentage of Total Terpenes Identified



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Test ID: 5026025

Source ID:

Date Sampled: 03/12/22

Date Accepted: 03/12/22

Batch Lot ID: 3B03



High Tide Holistics Inc.
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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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Chief Science Officer - 3/17/2022



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 recovery accuracy in Matrix Spike.
 - 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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