

SAMPLE NAME: Integrate/d 1500mg

Infused, Hemp

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:
DISTRIBUTOR / TESTED FOR
Business Name: Acknowledge Farms, LLC

License Number:
Address:
SAMPLE DETAIL
Batch Number: 1010150067

Sample ID: 221220L074

Date Collected: 12/20/2022

Date Received: 12/20/2022

Batch Size:
Sample Size: 1.0 units

Unit Mass: 30 milliliters per Unit

Serving Size: 1 milliliters per Serving


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: 50.550 mg/unit
Total CBD: 1516.590 mg/unit
Sum of Cannabinoids: 1674.570 mg/unit
Total Cannabinoids: 1674.390 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

 Total THC = Δ^9 -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

 Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa +

 THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN

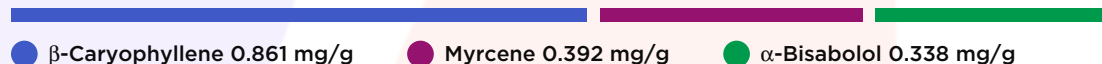
 Total Cannabinoids = (Δ^9 -THC+0.877*THCa) + (CBD+0.877*CBDa) +

(CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

 (CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN

Density: 0.9199 g/mL
TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED


Total Terpenoids: 0.2245%

● **β -Caryophyllene 0.861 mg/g**
● **Myrcene 0.392 mg/g**
● **α -Bisabolol 0.338 mg/g**
SAFETY ANALYSIS - SUMMARY
Microbiology (PCR): ND
Microbiology (Plating): ND

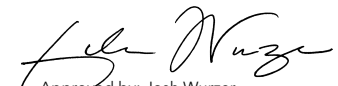
For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)


 LQC verified by: Quinn Rizal
 Job Title: Laboratory Assistant
 Date: 12/24/2022


 Approved by: Josh Wurzer
 Job Title: President
 Date: 12/24/2022



Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 50.550 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 1516.590 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 1674.390 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8 -THC + CBL + CBN

TOTAL CBG: 23.850 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 73.710 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 6.660 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 12/24/2022

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±1.8841	50.512	5.4910
CBC	0.003 / 0.010	±0.0791	2.457	0.2671
Δ^9 -THC	0.002 / 0.014	±0.0925	1.685	0.1832
CBG	0.002 / 0.006	±0.0386	0.795	0.0864
CBDV	0.002 / 0.012	±0.0091	0.222	0.0241
CBN	0.001 / 0.007	±0.0017	0.060	0.0065
CBDA	0.001 / 0.026	±0.0013	0.047	0.0051
CBL	0.003 / 0.010	±0.0015	0.041	0.0045
Δ^8 -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			55.819 mg/mL	6.0679%

Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

Δ^9 -THC per Unit	50.550 mg/unit
Δ^9 -THC per Serving	1.685 mg/serving
Total THC per Unit	50.550 mg/unit
Total THC per Serving	1.685 mg/serving
CBD per Unit	1515.360 mg/unit
CBD per Serving	50.512 mg/serving
Total CBD per Unit	1516.590 mg/unit
Total CBD per Serving	50.553 mg/serving
Sum of Cannabinoids per Unit	1674.570 mg/unit
Sum of Cannabinoids per Serving	55.819 mg/serving
Total Cannabinoids per Unit	1674.390 mg/unit
Total Cannabinoids per Serving	55.813 mg/serving

DENSITY TEST RESULT

0.9199 g/mL

Tested 12/24/2022

Method: QSP 7870 - Sample Preparation



Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

1 β-Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

2 Myrcene

A monoterpene with a fragrance that can be described as peppery, spicy, herbal, floral and woody. Although it has a pleasant odor, it is typically used by the perfume industry as precursor for developing other fragrances. Found in hops, houttuynia, bay, thyme, lemon grass, mango, verbena, cardamom, citrus...etc.

3 α-Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

TERPENOID TEST RESULTS - 12/24/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Caryophyllene	0.004 / 0.012	±0.0238	0.861	0.0861
Myrcene	0.008 / 0.025	±0.0039	0.392	0.0392
α-Bisabolol	0.008 / 0.026	±0.0140	0.338	0.0338
α-Humulene	0.009 / 0.029	±0.0061	0.243	0.0243
Guaiol	0.009 / 0.030	±0.0030	0.082	0.0082
Limonene	0.005 / 0.016	±0.0009	0.078	0.0078
Caryophyllene Oxide	0.010 / 0.033	±0.0027	0.075	0.0075
trans-β-Farnesene	0.008 / 0.025	±0.0015	0.053	0.0053
Fenchol	0.010 / 0.034	±0.0014	0.045	0.0045
Terpineol	0.009 / 0.031	±0.0021	0.043	0.0043
Linalool	0.009 / 0.032	±0.0010	0.035	0.0035
α-Pinene	0.005 / 0.017	N/A	<LOQ	<LOQ
Borneol	0.005 / 0.016	N/A	<LOQ	<LOQ
Valencene	0.009 / 0.030	N/A	<LOQ	<LOQ
Nerolidol	0.006 / 0.019	N/A	<LOQ	<LOQ
Camphene	0.005 / 0.015	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
β-Pinene	0.004 / 0.014	N/A	ND	ND
α-Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ ³ -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β-Ocimene	0.006 / 0.020	N/A	ND	ND
γ-Terpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009 / 0.028	N/A	ND	ND
Terpinolene	0.008 / 0.026	N/A	ND	ND
Isopulegol	0.005 / 0.016	N/A	ND	ND
Camphor	0.006 / 0.019	N/A	ND	ND
Isoborneol	0.004 / 0.012	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
Citronellol	0.003 / 0.010	N/A	ND	ND
Pulegone	0.003 / 0.011	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α-Cedrene	0.005 / 0.016	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			2.245 mg/g	0.2245%



Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PCR) - 12/24/2022 ND

COMPOUND	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	ND
<i>Salmonella</i> spp.	ND

MICROBIOLOGY TEST RESULTS (PLATING) - 12/24/2022 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND
Coliforms	ND