Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 02/21/2022

SAMPLE NAME: POK-0103-B11

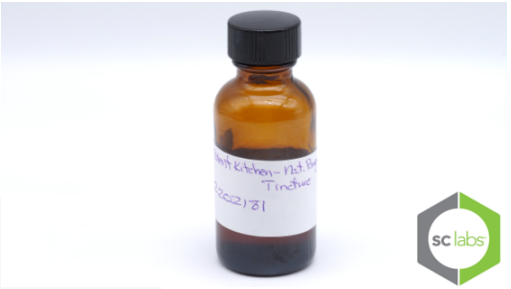
Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: Potent 2018 LTD
License Number:
Address:



SAMPLE DETAIL

Batch Number: 2202181
Sample ID: 220219T009

Date Collected: 02/19/2022
Date Received: 02/19/2022
Batch Size:
Sample Size:
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 2.130 mg/mL

Total CBD: 34.979 mg/mL

Sum of Cannabinoids: 40.541 mg/mL

Total Cannabinoids: 40.491 mg/mL

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: 0.9516 g/mL

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.460%

Eucalyptol 2.179 mg/g | β-Caryophyllene 0.453 mg/g | Terpineol 0.304 mg/g

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: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states except Alaska. Action limits for required tests are the lower of any conflicting state regulations.

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)

LQC verified by: Carmen Stackhouse
Date: 02/21/2022

Approved by: Josh Wurzer, President
Date: 02/21/2022

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: 2.130 mg/mL

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 34.979 mg/mL

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 40.491 mg/mL

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

TOTAL CBG: 1.525 mg/mL

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: 0.036 mg/mL

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 1.077 mg/mL

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.384 mg/mL

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 02/20/2022

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	*0.004 / 0.011*	*±1.2914*	34.622	3.6383
Δ^9-THC	*0.002 / 0.014*	*±0.1169*	2.130	0.2238
CBG	*0.002 / 0.006*	*±0.0740*	1.525	0.1603
CBC	*0.003 / 0.010*	*±0.0347*	1.077	0.1132
CBDa	*0.001 / 0.026*	*±0.0116*	0.407	0.0428
CBDV	*0.002 / 0.012*	*±0.0157*	0.384	0.0404
CBL	*0.003 / 0.010*	*±0.0096*	0.260	0.0273
CBN	*0.001 / 0.007*	*±0.0029*	0.100	0.0105
THCV	*0.002 / 0.012*	*±0.0018*	0.036	0.0038
CBCa	*0.001 / 0.015*	*N/A*	<LOQ	<LOQ
THCa	*0.001 / 0.005*	*N/A*	ND	ND
Δ^8-THC	*0.01 / 0.02*	*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
SUM OF CANNABINOIDS			40.541 mg/mL	4.2603%

DENSITY TEST RESULT

0.9516 g/mL

Tested 02/20/2022

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

TERPENOID TEST RESULTS - 02/21/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Eucalyptol	*0.006 / 0.018*	*±0.0429*	2.179	0.2179
β-Caryophyllene	*0.004 / 0.012*	*±0.0125*	0.453	0.0453
Terpineol	*0.009 / 0.031*	*±0.0145*	0.304	0.0304
Menthol	*0.008 / 0.025*	*±0.0085*	0.272	0.0272
Sabinene	*0.004 / 0.014*	*±0.0021*	0.223	0.0223
Limonene	*0.005 / 0.016*	*±0.0019*	0.171	0.0171
α-Humulene	*0.009 / 0.029*	*±0.0038*	0.154	0.0154
Guaiol	*0.009 / 0.030*	*±0.0041*	0.111	0.0111
α-Pinene	*0.005 / 0.017*	*±0.0007*	0.109	0.0109
Linalool	*0.009 / 0.032*	*±0.0026*	0.088	0.0088

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Terpenoid Analysis *Continued*

1 Eucalyptol
A monoterpenoid alcohol with a fragrance that can be described as a combination of fresh, spicy, herbal and minty. It is sometimes added to cigarettes and mouthwashes as a flavorant. Although sometimes used as an insect repellant, it is a powerful attractant to certain male bees. Found in eucalyptus, rosemary, wormwood, sage...etc.

2 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 CB_2 receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

3 Terpineol
A monoterpenoid alcohol with a fragrance that can be described as fresh, floral, piney, woody with a hint of lime. The most common isomer is α-Terpineol. Found in melaleuca, pine, bitter orange, skullcap, tea plant...etc.

TERPENOID TEST RESULTS - 02/21/2022 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α-Bisabolol	*0.008 / 0.026*	*±0.0037*	**0.088**	**0.0088**
Myrcene	*0.008 / 0.025*	*±0.0008*	**0.075**	**0.0075**
Terpinolene	*0.008 / 0.026*	*±0.0011*	**0.071**	**0.0071**
β-Pinene	*0.004 / 0.014*	*±0.0006*	**0.068**	**0.0068**
trans-β-Farnesene	*0.008 / 0.025*	*±0.0014*	**0.049**	**0.0049**
Borneol	*0.005 / 0.016*	*±0.0016*	**0.048**	**0.0048**
Fenchol	*0.010 / 0.034*	*±0.0011*	**0.038**	**0.0038**
γ-Terpinene	*0.006 / 0.018*	*±0.0004*	**0.029**	**0.0029**
p-Cymene	*0.005 / 0.016*	*±0.0005*	**0.026**	**0.0026**
β-Ocimene	*0.006 / 0.020*	*±0.0006*	**0.022**	**0.0022**
Nerolidol	*0.006 / 0.019*	*±0.0011*	**0.022**	**0.0022**
Camphene	*0.005 / 0.015*	*N/A*	**<LOQ**	**<LOQ**
α-Phellandrene	*0.006 / 0.020*	*N/A*	**<LOQ**	**<LOQ**
α-Terpinene	*0.005 / 0.017*	*N/A*	**<LOQ**	**<LOQ**
Sabinene Hydrate	*0.006 / 0.022*	*N/A*	**<LOQ**	**<LOQ**
Nerol	*0.003 / 0.011*	*N/A*	**<LOQ**	**<LOQ**
Citronellol	*0.003 / 0.010*	*N/A*	**<LOQ**	**<LOQ**
Pulegone	*0.003 / 0.011*	*N/A*	**<LOQ**	**<LOQ**
Geraniol	*0.002 / 0.007*	*N/A*	**<LOQ**	**<LOQ**
Δ^3-Carene	*0.005 / 0.018*	*N/A*	**ND**	**ND**
Fenchone	*0.009 / 0.028*	*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**
Geranyl Acetate	*0.004 / 0.014*	*N/A*	**ND**	**ND**
α-Cedrene	*0.005 / 0.016*	*N/A*	**ND**	**ND**
Valencene	*0.009 / 0.030*	*N/A*	**ND**	**ND**
Caryophyllene Oxide	*0.010 / 0.033*	*N/A*	**ND**	**ND**
Cedrol	*0.008 / 0.027*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS			**4.600 mg/g**	**0.460%**