

SAMPLE NAME: pawcbd Peanut Butter 600 mg

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Paw CBD

License Number:

Address:

SAMPLE DETAIL

Batch Number: 220618VIE210618600

Sample ID: 210622R001

Date Collected: 06/22/2021

Date Received: 06/22/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 453 grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 688.107 mg/unit

Sum of Cannabinoids: 723.441 mg/unit

Total Cannabinoids: 723.441 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 = $\Delta 9\text{THC} + (\text{THCa} \times 0.877)$
 Total CBD = $\text{CBD} + (\text{CBDA} \times 0.877)$
 Sum of Cannabinoids = $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDA} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$
 Total Cannabinoids = $(\Delta 9\text{THC} + 0.877 \times \text{THCa}) + (\text{CBD} + 0.877 \times \text{CBDA}) + (\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVa}) + (\text{CBC} + 0.877 \times \text{CBCa}) + (\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

SAFETY ANALYSIS - SUMMARY

Pesticides: DETECTED

Heavy Metals: DETECTED

Mycotoxins: ND

Microbiology (PCR): ND

Residual Solvents: ND

Microbiology (Plating): DETECTED

For quality assurance purposes. Not a Pre-Harvest 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. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

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)

Lucy Murray
 LOC verified by: Randi Vuong
 Date: 06/25/2021

Josh Wurzer
 Approved by: Josh Wurzer, President
 Date: 06/25/2021

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: **Not Detected**

Total THC (Δ^9 THC+0.877*THCa)

TOTAL CBD: **688.107 mg/unit**

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: **723.441 mg/unit**

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

TOTAL CBG: **22.650 mg/unit**

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: **ND**

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: **ND**

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: **ND**

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 06/23/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	± 0.0728	1.519	0.1519
CBG	0.002 / 0.006	± 0.0031	0.050	0.0050
CBN	0.001 / 0.007	± 0.0010	0.028	0.0028
Δ^9 THC	0.002 / 0.014	N/A	ND	ND
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
CBDA	0.001 / 0.026	N/A	ND	ND
CBDV	0.002 / 0.012	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBC	0.003 / 0.010	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			1.597 mg/g	0.1597%

Unit Mass: 453 grams per Unit

Δ^9 THC per Unit	ND
Total THC per Unit	ND
CBD per Unit	688.107 mg/unit
Total CBD per Unit	688.107 mg/unit
Sum of Cannabinoids per Unit	723.441 mg/unit
Total Cannabinoids per Unit	723.441 mg/unit



Pesticide Analysis

PESTICIDE TEST RESULTS - 06/23/2021 DETECTED

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Abamectin	0.03 / 0.10	0.07	N/A	ND
Acephate	0.02 / 0.07	0.05	N/A	ND
Acequinocyl	0.02 / 0.07	0.03	N/A	ND
Acetamiprid	0.02 / 0.05	0.05	N/A	ND
Aldicarb	0.03 / 0.08	0.1	N/A	ND
Azoxystrobin	0.02 / 0.07	0.01	N/A	ND
Bifenazate	0.01 / 0.04	0.01	N/A	ND
Bifenthrin	0.02 / 0.05	0.2	N/A	ND
Boscalid	0.03 / 0.09	0.01	N/A	ND
Captan	0.19 / 0.57	3	N/A	ND
Carbaryl	0.02 / 0.06	0.025	N/A	ND
Carbofuran	0.02 / 0.05	0.01	N/A	ND
Chlorantraniliprole	0.04 / 0.12	0.02	N/A	ND
Chlordane*	0.03 / 0.08	0.1	N/A	ND
Chlorfenapyr*	0.03 / 0.10	0.1	N/A	ND
Chlorpyrifos	0.02 / 0.06	0.04	N/A	ND
Clofentezine	0.03 / 0.09	0.01	N/A	ND
Coumaphos	0.02 / 0.07	0.01	N/A	ND
Cyfluthrin	0.12 / 0.38	0.1	N/A	ND
Cypermethrin	0.11 / 0.32	0.3	N/A	ND
Daminozide	0.02 / 0.07	0.1	N/A	ND
DDVP (Dichlorvos)	0.03 / 0.09	0.1	N/A	ND
Diazinon	0.02 / 0.05	0.02	N/A	ND
Dimethoate	0.03 / 0.08	0.1	N/A	ND
Dimethomorph	0.03 / 0.09	0.05	N/A	ND
Ethoprop(hos)	0.03 / 0.10	0.01	N/A	ND
Etofenprox	0.02 / 0.06	0.05	N/A	ND
Etoxazole	0.02 / 0.06	0.01	N/A	ND
Fenhexamid	0.03 / 0.09	0.125	N/A	ND
Fenoxycarb	0.03 / 0.08	0.01	N/A	ND
Fenpyroximate	0.02 / 0.06	0.2	N/A	ND
Fipronil	0.03 / 0.08	0.01	N/A	ND
Flonicamid	0.03 / 0.10	0.025	N/A	ND
Fludioxonil	0.03 / 0.10	0.01	N/A	ND
Hexythiazox	0.02 / 0.07	0.01	N/A	ND
Imazalil	0.02 / 0.06	0.01	N/A	ND
Imidacloprid	0.04 / 0.11	0.01	N/A	ND
Kresoxim-methyl	0.02 / 0.07	0.02	N/A	ND
Malathion	0.03 / 0.09	0.02	N/A	ND
Metalaxyl	0.02 / 0.07	0.02	N/A	ND
Methiocarb	0.02 / 0.07	0.02	N/A	ND

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Pesticide Analysis *Continued*

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 06/23/2021 *continued* DETECTED

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Methomyl	0.03 / 0.10	0.05	N/A	ND
Methyl parathion	0.03 / 0.10	0.05	N/A	ND
Mevinphos	0.03 / 0.09	0.025	N/A	ND
Myclobutanil	0.03 / 0.09	0.01	N/A	ND
Naled	0.02 / 0.07	0.1	N/A	ND
Oxamyl	0.04 / 0.11	0.5	N/A	ND
Paclobutrazol	0.02 / 0.05	0.01	N/A	ND
Pentachloronitrobenzene*	0.03 / 0.09	0.02	N/A	ND
Permethrin	0.04 / 0.12	0.04	N/A	ND
Phosmet	0.03 / 0.10	0.02	N/A	ND
Piperonylbutoxide	0.02 / 0.07	0.2	N/A	<LOQ
Prallethrin	0.03 / 0.08	0.05	N/A	ND
Propiconazole	0.02 / 0.07	0.1	N/A	ND
Propoxur	0.03 / 0.09	0.01	N/A	ND
Pyrethrins	0.04 / 0.12	0.05	N/A	ND
Pyridaben	0.02 / 0.07	0.02	N/A	ND
Spinetoram	0.02 / 0.07	0.01	N/A	ND
Spinosad	0.02 / 0.07	0.01	N/A	ND
Spiromesifen	0.02 / 0.05	0.03	N/A	ND
Spirotetramat	0.02 / 0.06	0.01	N/A	ND
Spiroxamine	0.03 / 0.08	0.1	N/A	ND
Tebuconazole	0.02 / 0.07	0.01	N/A	ND
Thiacloprid	0.03 / 0.10	0.01	N/A	ND
Thiamethoxam	0.03 / 0.10	0.01	N/A	ND
Trifloxystrobin	0.03 / 0.08	0.02	N/A	ND



Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

MYCOTOXIN TEST RESULTS - 06/23/2021 ND

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)
Aflatoxin B1	2.0 / 6.0	5	N/A	ND
Aflatoxin B2	1.8 / 5.6	20	N/A	ND
Aflatoxin G1	1.0 / 3.1	20	N/A	ND
Aflatoxin G2	1.2 / 3.5	20	N/A	ND
Total Aflatoxin		20		ND
Ochratoxin A	6.3 / 19.2	5	N/A	ND





Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

RESIDUAL SOLVENTS TEST RESULTS - 06/25/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	10 / 20	500	N/A	ND
Butane	10 / 50	2000	N/A	ND
Pentane	20 / 50	1000	N/A	ND
Hexane	2 / 5	ND	N/A	ND
Heptane	20 / 60	500	N/A	ND
Benzene	0.03 / 0.09	ND	N/A	ND
Toluene	7 / 21	ND	N/A	ND
Total Xylenes	50 / 160	217	N/A	ND
Methanol	50 / 200	500	N/A	ND
Ethanol	20 / 50	1000	N/A	ND
Isopropyl Alcohol	10 / 40	500	N/A	ND
Acetone	20 / 50	5000	N/A	ND
Ethyl ether	20 / 50	5000	N/A	ND
Ethylene Oxide	0.3 / 0.8	5	N/A	ND
Ethyl acetate	20 / 60	1000	N/A	ND
Chloroform	0.1 / 0.2	1	N/A	ND
Methylene chloride	0.3 / 0.9	600	N/A	ND
Trichloroethylene	0.1 / 0.3	80	N/A	ND
1,2-Dichloroethane	0.05 / 0.1	5	N/A	ND
Acetonitrile	2 / 7	0.41	N/A	ND



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 06/23/2021 DETECTED

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Arsenic	0.02 / 0.1	0.00014	N/A	ND
Cadmium	0.02 / 0.05	0.00009	±0.003	0.10
Lead	0.04 / 0.1	0.00029	N/A	ND
Mercury	0.002 / 0.01	0.00029	N/A	ND





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

MICROBIOLOGY TEST RESULTS (PCR) - 06/25/2021 ND

COMPOUND	ACTION LIMIT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 25g	ND
<i>Salmonella</i> spp.	Detect	ND
<i>Listeria monocytogenes</i>	Detect	ND

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

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

MICROBIOLOGY TEST RESULTS (PLATING) - 06/25/2021 DETECTED

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)
Total Aerobic Bacteria	100	100
Total Yeast and Mold	10	200

