

SAMPLE NAME: Apple CBD Full Spectrum Gummy

Infused, Hemp

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name:

License Number:

Address:

SAMPLE DETAIL

Batch Number: G-11552-A

Sample ID: 211202P018

Date Collected: 12/02/2021

Date Received: 12/02/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 17.1942 grams per Unit

Serving Size: 5.7314 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: **14.306 mg/unit**

Total CBD: **72.474 mg/unit**

Sum of Cannabinoids: **96.29 mg/unit**

Total Cannabinoids: **96.26 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 = $(\Delta 9\text{THC} + 0.877 \times \text{THCa}) + (\text{CBD} + 0.877 \times \text{CBDa}) +$

$(\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVa}) + (\text{CBC} + 0.877 \times \text{CBCa}) +$

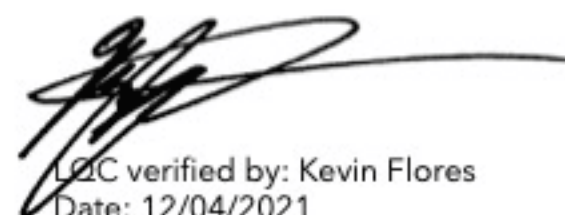
$(\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

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: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, 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)


QC verified by: Kevin Flores
Date: 12/04/2021


Approved by: Josh Wurzer, President
Date: 12/04/2021

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: 14.306 mg/unit

Total THC ($\Delta 9$ THC + 0.877*THCa)

TOTAL CBD: 72.474 mg/unit

Total CBD (CBD + 0.877*CBDA)

TOTAL CANNABINOIDS: 96.26 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta 8$ THC + CBL + CBN

TOTAL CBG: 4.539 mg/unit

Total CBG (CBG + 0.877*CBGa)

TOTAL THCV: <LOQ

Total THCV (THCV + 0.877*THCVa)

TOTAL CBC: 1.926 mg/unit

Total CBC (CBC + 0.877*CBCa)

TOTAL CBDV: 0.980 mg/unit

Total CBDV (CBDV + 0.877*CBDVa)

CANNABINOID TEST RESULTS - 12/04/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.2019	4.215	0.4215
$\Delta 9$ THC	0.002 / 0.014	±0.0587	0.832	0.0832
CBG	0.002 / 0.006	±0.0164	0.264	0.0264
CBC	0.003 / 0.010	±0.0046	0.112	0.0112
CBDV	0.002 / 0.012	±0.0030	0.057	0.0057
CBN	0.001 / 0.007	±0.0017	0.046	0.0046
$\Delta 8$ THC	0.01 / 0.02	±0.003	0.04	0.004
CBL	0.003 / 0.010	±0.0015	0.032	0.0032
THCV	0.002 / 0.012	N/A	<LOQ	<LOQ
THCa	0.001 / 0.005	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDA	0.001 / 0.026	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			5.60 mg/g	0.56%

Unit Mass: 17.1942 grams per Unit / Serving Size: 5.7314 grams per Serving

$\Delta 9$ THC per Unit	14.306 mg/unit
$\Delta 9$ THC per Serving	4.769 mg/serving
Total THC per Unit	14.306 mg/unit
Total THC per Serving	4.769 mg/serving
CBD per Unit	72.474 mg/unit
CBD per Serving	24.158 mg/serving
Total CBD per Unit	72.474 mg/unit
Total CBD per Serving	24.158 mg/serving
Sum of Cannabinoids per Unit	96.29 mg/unit
Sum of Cannabinoids per Serving	32.10 mg/serving
Total Cannabinoids per Unit	96.26 mg/unit
Total Cannabinoids per Serving	32.09 mg/serving



Crystalline CBD Isolate

Sample ID: 2101CSALA4413.1224

Matrix: Concentrates & Extracts

Type: Cannabinoid Isolate

Sample Size: 2 units

Batch Size: 10 grams

Batch#: KND 371

Produced: 01/20/2021

Collected: 01/22/2021

Received: 01/22/2021

Completed: 01/27/2021

Pesticides

Pass

Testing method: LCMS & GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0125	0.0749	0.1	ND	Pass	Fludioxonil	0.0075	0.0974	0.1	ND	Pass
Acephate	0.0025	0.0974	0.1	ND	Pass	Hexythiazox	0.0012	0.0974	0.1	ND	Pass
Acequinocyl	0.0025	0.0974	0.1	ND	Pass	Imazalil *	0.01	0.0974	0.01	ND	Pass
Acetamiprid	0.0025	0.0974	0.1	ND	Pass	Imidacloprid	0.0025	0.0974	5	ND	Pass
Aldicarb *	0.0062	0.0974	0.0062	ND	Pass	Kresoxim Methyl	0.0037	0.0974	0.1	ND	Pass
Azoxystrobin	0.0037	0.0974	0.1	ND	Pass	Malathion	0.005	0.0974	0.5	ND	Pass
Bifenazate	0.0025	0.0974	0.1	ND	Pass	Metaxyl	0.0037	0.0974	2	ND	Pass
Bifenthrin	0.0075	0.0974	3	ND	Pass	Methiocarb *	0.005	0.0974	0.005	ND	Pass
Boscalid	0.0075	0.0974	0.1	ND	Pass	Methomyl	0.005	0.0974	1	ND	Pass
Captan	0.0237	0.1948	0.7	ND	Pass	Methyl Parathion *	0.0087	0.0487	0.0087	ND	Pass
Carbaryl	0.0037	0.0974	0.5	ND	Pass	Mevinphos *	0.0025	0.0974	0.0025	ND	Pass
Carbofuran *	0.0037	0.0974	0.0037	ND	Pass	Myclobutanil	0.0062	0.0974	0.1	ND	Pass
Chlorantraniliprole	0.0062	0.0974	10	ND	Pass	Naled	0.01	0.0974	0.1	ND	Pass
Chlordane *	0.0062	0.0487	0.0062	ND	Pass	Oxamyl	0.0037	0.0974	0.5	ND	Pass
Chlorfenapyr *	0.0112	0.0487	0.0112	ND	Pass	Paclobutrazol *	0.005	0.0974	0.005	ND	Pass
Chlorpyrifos *	0.0037	0.0974	0.0037	ND	Pass	Pentachloronitrobenzene	0.0037	0.0487	0.1	ND	Pass
Clofentezine	0.005	0.0974	0.1	ND	Pass	Permethrin	0.0025	0.0974	0.5	ND	Pass
Coumaphos *	0.0025	0.0974	0.0025	ND	Pass	Phosmet	0.0025	0.0974	0.1	ND	Pass
Cyfluthrin	0.01	0.0974	2	ND	Pass	Piperonyl Butoxide	0.0012	0.0974	3	ND	Pass
Cypermethrin	0.0062	0.0974	1	ND	Pass	Prallethrin	0.0037	0.0974	0.1	ND	Pass
Daminozide *	0.01	0.0974	0.01	ND	Pass	Propiconazole	0.0025	0.0974	0.1	ND	Pass
DDVP *	0.0025	0.0974	0.0025	ND	Pass	Propoxur *	0.0025	0.0974	0.0025	ND	Pass
Diazinon	0.0025	0.0974	0.1	ND	Pass	Pyrethrins	0.0075	0.0837	0.5	ND	Pass
Dimethoate *	0.0025	0.0974	0.0025	ND	Pass	Pyridaben	0.0125	0.0974	0.1	ND	Pass
Dimethomorph	0.0075	0.0974	2	ND	Pass	Spinetoram	0.0037	0.0974	0.1	ND	Pass
Ethoprophos *	0.0037	0.0974	0.0037	ND	Pass	Spinosad	0.005	0.0987	0.1	ND	Pass
Etofenprox *	0.0025	0.0974	0.0025	ND	Pass	Spiromesifen	0.0025	0.0974	0.1	ND	Pass
Etoxazole	0.0025	0.0974	0.1	ND	Pass	Spirotetramat	0.0037	0.0974	0.1	ND	Pass
Fenhexamid	0.0025	0.0974	0.1	ND	Pass	Spiroxamine *	0.0012	0.0974	0.0012	ND	Pass
Fenoxycarb *	0.005	0.0974	0.005	ND	Pass	Tebuconazole	0.0125	0.0974	0.1	ND	Pass
Fenpyroximate	0.0025	0.0974	0.1	ND	Pass	Thiacloprid *	0.0025	0.0974	0.0025	ND	Pass
Fipronil *	0.015	0.0974	0.015	ND	Pass	Thiamethoxam	0.0025	0.0974	5	ND	Pass
Flonicamid	0.005	0.0974	0.1	ND	Pass	Trifloxystrobin	0.0025	0.0974	0.1	ND	Pass

Date Tested: 01/26/2021

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


ISO / IEC 17025:2017 ACCREDITED
LABORATORY
Accreditation No. 73653


Douglas Duncan
Lab Director
01/27/2021

Cecilia Melgar
COA Review
01/27/2021

The values reported pertain only to the product tested. R&D Sample Only. Tested as-is/received from client. Unless otherwise stated all Laboratory Quality Control (LQC) samples performed within specifications established by the BCC in 16 CCR section 5730. Sample tested per CALIFORNIA CODE OF REGULATIONS, TITLE 16, DIVISION 42. BUREAU OF CANNABIS CONTROL.

Crystalline CBD Isolate

Sample ID: 2101CSALA4413.1224

Matrix: Concentrates & Extracts

Type: Cannabinoid Isolate

Sample Size: 2 units

Batch Size: 10 grams

Batch#: KND 371

Produced: 01/20/2021

Collected: 01/22/2021

Received: 01/22/2021

Completed: 01/27/2021

Microbials

Pass

Testing method: PCR-SOP 401

Analyte	Result	Status
Aspergillus flavus	Not Detected	Pass
Aspergillus fumigatus	Not Detected	Pass
Aspergillus niger	Not Detected	Pass
Aspergillus terreus	Not Detected	Pass
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 01/25/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.005	0.0496	0.2	<LOQ	Pass
Cadmium	0.003	0.0496	0.2	<LOQ	Pass
Lead	0.0099	0.0496	0.5	<LOQ	Pass
Mercury	0.002	0.0496	0.1	<LOQ	Pass

Date Tested: 01/25/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Crystalline CBD Isolate

Sample ID: 2101CSALA4413.1224

Matrix: Concentrates & Extracts

Type: Cannabinoid Isolate

Sample Size: 2 units

Batch Size: 10 grams

Batch#: KND 371

Produced: 01/20/2021

Collected: 01/22/2021

Received: 01/22/2021

Completed: 01/27/2021

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.1335	0.4998	1	ND	Pass
Acetone	50.0	500.0	5000	ND	Pass
Acetonitrile	4.1	41.0	410	ND	Pass
Benzene	0.1183	0.4349	1	ND	Pass
Butane	50.0	500.0	5000	ND	Pass
Chloroform	0.2556	0.9348	1	ND	Pass
Ethanol	50.0	500.0	5000	ND	Pass
Ethyl acetate	50.0	500.0	5000	ND	Pass
Ethylene Oxide	0.1908	0.7058	1	ND	Pass
Ethyl ether	50.0	500.0	5000	ND	Pass
Heptane	50.0	500.0	5000	ND	Pass
Isopropyl alcohol	50.0	500.0	5000	ND	Pass
Methanol	30.0	300.0	3000	ND	Pass
Methylene chloride	0.1488	0.5494	1	ND	Pass
Hexane	2.9	29.0	290	ND	Pass
Pentane	50.0	500.0	5000	<LOQ	Pass
Propane	50.0	500.0	5000	ND	Pass
Toluene	8.9	89.0	890	ND	Pass
Trichloroethylene	0.1259	0.4693	1	ND	Pass
Total xylenes	21.7	217.0	2170	ND	Pass

Date Tested: 01/26/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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