

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 12/09/2021

SAMPLE NAME: Pineapple Express

Flower, Hemp

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

SAMPLE DETAIL

Batch Number: CS-21326-PE Sample ID: 211207R009

DISTRIBUTOR / TESTED FOR

Business Name: Budding Ventures License Number: Address:

Date Collected: 12/07/2021 Date Received: 12/07/2021 Batch Size: Sample Size: Unit Mass: Serving Size:





Scan QR code to verify authenticity of results.

CALCULATED USING DRY-WEIGHT

CANNABINOID	ANALYSIS -	SUMMARY

Total THC: 0.68%	Total THC/CBD is calculated using the following	formulas to take into Mo	isture: 13.1%
Total CBD: 15.1% Sum of Cannabinoids: 19.32% Total Cannabinoids: 17.2%	account the loss of a carboxyl group during the c Total THC = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ 9THC + THCa + CBD + THCV + THCVa + CBC + CBCa + CBDV + CBDVa Total Cannabinoids = (Δ 9THC+0.877*THCa) + (C (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (C (CBDV+0.877*CBDVa) + Δ 8THC + CBL + CBN	ecarboxylation step: CBDa + CBG + CBGa + + Δ8THC + CBL + CBN BD+0.877*CBDa) + :BC+0.877*CBCa) +	
TERPENOID ANALYSIS - SUMM	ARY		39 TESTED, TOP 3 HIGHLIGHTED
Total Terpenoids: 1.5648%	Myrcene 4.569 mg/g β Cary	ophyllene 2.584 mg/g	🔵 α Bisabolol 1.999 mg/g
SAFETY ANALYSIS - SUMMARY			
Pesticides: ND Microbiology (PCR): ND	Mycotoxins: ND	Heavy Wate	y Metals: 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: 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)

Kelsey Cochran pproved by: Josh Wurzer, President ate: 12/09/2021 Date: 12/09/2021

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

PINEAPPLE EXPRESS | DATE ISSUED 12/09/2021



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

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

Total THC (∆9THC+0.877*THCa)

TOTAL CBD: 15.1%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 17.2%

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

TOTAL CBG: 0.64%

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.69% Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.049% Total CBDV (CBDV+0.877*CBDVa)

Rad Terpenoid Analysis

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

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



CANNABINOID TEST RESULTS - 12/09/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDa	0.06 / 0.22	±6.616	156.78	15.678
CBD	0.1/0.3	±0.74	13.5	1.35
CBCa	0.1/0.4	±0.60	6.8	0.68
CBGa	0.1/0.4	±0.44	6.4	0.64
THCa	0.04/0.24	±0.244	5.90	0.590
Δ9ΤΗϹ	0.1/0.4	±0.06	1.6	0.16
CBC	0.1/0.2	±0.04	0.9	0.09
CBG	0.2/0.5	±0.07	0.8	0.08
CBDVa	0.02/0.22	±0.006	0.56	0.056
∆8THC	0.05/0.50	N/A	ND	ND
THCV	0.07/0.21	N/A	ND	ND
THCVa	0.05/0.17	N/A	ND	ND
CBDV	0.1/0.3	N/A	ND	ND
CBL	0.1/0.4	N/A	ND	ND
CBN	0.07/0.20	N/A	ND	ND
SUM OF CANNA	BINOIDS		193.2 mg/g	19.32%

MOISTURE TEST RESULT

13.1%

Tested 12/08/2021

Method: QSP 1224 - Loss on Drying (Moisture)

TERPENOID TEST RESULTS - 12/09/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Myrcene	0.007/0.025	±0.2074	4.569	0.4569
β Caryophyllene	0.004/0.013	±0.1788	2.584	0.2584
α Bisabolol	0.008/0.026	±0.1105	1.999	0.1999
α Pinene	0.005/0.015	±0.0724	1.575	0.1575
Guaiol	0.011/0.035	±0.0845	1.210	0.1210
α Humulene	0.009/0.031	±0.0531	0.768	0.0768
β Pinene	0.004/0.015	±0.0275	0.663	0.0663
Limonene	0.005/0.016	±0.0226	0.539	0.0539
Linalool	0.009/0.030	±0.0210	0.416	0.0416
Caryophyllene Oxide	0.011/0.038	±0.0223	0.292	0.0292

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

PINEAPPLE EXPRESS | DATE ISSUED 12/09/2021



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

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

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.

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.

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.



Pesticide Analysis

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



TERPENOID TEST RESULTS - 12/09/2021 continued

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Nerolidol	0.008/0.028	±0.0257	0.253	0.0253
Terpineol	0.014/0.046	±0.0179	0.228	0.0228
Fenchol	0.009/0.029	±0.0077	0.162	0.0162
$trans$ - β -Farnesene	0.008/0.028	±0.0102	0.140	0.0140
Borneol	0.004/0.014	±0.0049	0.081	0.0081
Ocimene	0.015/0.034	±0.0023	0.046	0.0046
Camphene	0.004/0.014	±0.0017	0.041	0.0041
Citronellol	0.003/0.010	±0.0013	0.036	0.0036
R-(+)-Pulegone	0.003/0.010	±0.0020	0.024	0.0024
γTerpinene	0.005/0.018	±0.0007	0.022	0.0022
α Phellandrene	0.006/0.019	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
p-Cymene	0.005/0.015	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Eucalyptol	0.005/0.018	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Sabinene Hydrate	0.007/0.022	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Fenchone	0.008/0.026	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Terpinolene	0.008/0.027	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Nerol	0.003/0.011	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Sabinene	0.004/0.014	N/A	ND	ND
3 Carene	0.005/0.018	N/A	ND	ND
α Terpinene	0.006/0.019	N/A	ND	ND
(-)-Isopulegol	0.004/0.013	N/A	ND	ND
Camphor	0.005/0.015	N/A	ND	ND
Isoborneol	0.003/0.011	N/A	ND	ND
Menthol	0.008/0.025	N/A	ND	ND
Geraniol	0.002/0.007	N/A	ND	ND
Geranyl Acetate	0.004/0.012	N/A	ND	ND
α Cedrene	0.005/0.017	N/A	ND	ND
Valencene	0.010/0.033	N/A	ND	ND
Cedrol	0.009/0.032	N/A	ND	ND
TOTAL TERPENOIDS			15.648 mg/g	1.5648%

PESTICIDE TEST RESULTS - 12/09/2021 ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)
Abamectin	0.03/0.10	N/A	ND
Acephate	0.02/0.07	N/A	ND
Acequinocyl	0.02/0.07	N/A	ND
Acetamiprid	0.02/0.05	N/A	ND
Aldicarb	0.03/0.08	N/A	ND
Azoxystrobin	0.02 / 0.07	N/A	ND

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

PINEAPPLE EXPRESS | DATE ISSUED 12/09/2021



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



COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Bifenazate	0.01/0.04	N/A	ND
Bifenthrin	0.02/0.05	N/A	ND
Boscalid	0.03/0.09	N/A	ND
Captan	0.19/0.57	N/A	ND
Carbaryl	0.02/0.06	N/A	ND
Carbofuran	0.02/0.05	N/A	ND
Chlorantraniliprole	0.04/0.12	N/A	ND
Chlordane*	0.03/0.08	N/A	ND
Chlorfenapyr*	0.03/0.10	N/A	ND
Chlorpyrifos	0.02/0.06	N/A	ND
Clofentezine	0.03/0.09	N/A	ND
Coumaphos	0.02/0.07	N/A	ND
Cyfluthrin	0.12/0.38	N/A	ND
Cypermethrin	0.11/0.32	N/A	ND
Daminozide	0.02/0.07	N/A	ND
DDVP (Dichlorvos)	0.03/0.09	N/A	ND
Diazinon	0.02/0.05	N/A	ND
Dimethoate	0.03/0.08	N/A	ND
Dimethomorph	0.03/0.09	N/A	ND
Ethoprop(hos)	0.03/0.10	N/A	ND
Etofenprox	0.02/0.06	N/A	ND
Etoxazole	0.02/0.06	N/A	ND
Fenhexamid	0.03/0.09	N/A	ND
Fenoxycarb	0.03/0.08	N/A	ND
Fenpyroximate	0.02/0.06	N/A	ND
Fipronil	0.03/0.08	N/A	ND
Flonicamid	0.03/0.10	N/A	ND
Fludioxonil	0.03/0.10	N/A	ND
Hexythiazox	0.02/0.07	N/A	ND
Imazalil	0.02/0.06	N/A	ND
Imidacloprid	0.04/0.11	N/A	ND
Kresoxim-methyl	0.02/0.07	N/A	ND
Malathion	0.03/0.09	N/A	ND
Metalaxyl	0.02/0.07	N/A	ND
Methiocarb	0.02/0.07	N/A	ND
Methomyl	0.03/0.10	N/A	ND
Methyl parathion	0.03/0.10	N/A	ND
Mevinphos	0.03/0.09	N/A	ND
Myclobutanil	0.03/0.09	N/A	ND
Naled	0.02/0.07	N/A	ND
Oxamyl	0.04/0.11	N/A	ND



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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

PINEAPPLE EXPRESS | DATE ISSUED 12/09/2021



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



COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)
Paclobutrazol	0.02 / 0.05	N/A	ND
Pentachloronitrobenzene*	0.03/0.09	N/A	ND
Permethrin	0.04 / 0.12	N/A	ND
Phosmet	0.03/0.10	N/A	ND
Piperonylbutoxide	0.02/0.07	N/A	ND
Prallethrin	0.03/0.08	N/A	ND
Propiconazole	0.02/0.07	N/A	ND
Propoxur	0.03/0.09	N/A	ND
Pyrethrins	0.04/0.12	N/A	ND
Pyridaben	0.02/0.07	N/A	ND
Spinetoram	0.02/0.07	N/A	ND
Spinosad	0.02/0.07	N/A	ND
Spiromesifen	0.02/0.05	N/A	ND
Spirotetramat	0.02/0.06	N/A	ND
Spiroxamine	0.03/0.08	N/A	ND
Tebuconazole	0.02/0.07	N/A	ND
Thiacloprid	0.03 / 0.10	N/A	ND
Thiamethoxam	0.03/0.10	N/A	ND
Trifloxystrobin	0.03/0.08	N/A	ND

MYCOTOXIN TEST RESULTS - 12/09/2021 ND

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

(HPLC-MS).

LC-MS

Heavy Metals Analysis

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

Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by

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



HEAVY METALS TEST RESULTS - 12/08/2021 DETECTED

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)
Arsenic	0.02/0.1	±0.01	0.3
Cadmium	0.02/0.05	±0.015	0.15
Lead	0.04/0.1	±0.01	0.3
Mercury	0.002/0.01	N/A	<loq< th=""></loq<>

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

PINEAPPLE EXPRESS | DATE ISSUED 12/09/2021



Microbiology Analysis

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

Method: QSP 1221 - Analysis of Microbiological Contaminants



Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

🗞 Water Activity Analysis

Method: QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

MICROBIOLOGY TEST RESULTS (PCR) - 12/09/2021 ND

COMPOUND	RESULT
Shiga toxin-producing Escherichia coli	ND
Salmonella spp.	ND
Aspergillus fumigatus	ND
Aspergillus flavus	ND
Aspergillus niger	ND
Aspergillus terreus	ND

FOREIGN MATERIAL TEST RESULTS - 12/09/2021 O PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	PASS
Total Sample Area Covered by Mold	>25%	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	PASS
Insect Fragment Count	> 1 per 3 grams	PASS
Hair Count	> 1 per 3 grams	PASS
Mammalian Excreta Count	> 1 per 3 grams	PASS

WATER ACTIVITY TEST RESULTS - 12/08/2021 DETECTED

COMPOUND	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)
Water Activity	±0.00392	0.5682

