

CBG

Sample ID: 2012CSALA4154.0571

Matrix: Other

Type: Industrial Hemp Testing

Sample Size: 27 units

County Sample ID:

Produced: 12/22/2020

Collected: 12/23/2020

Received: 12/23/2020

Completed: 12/30/2020

Physical Address:

Sampler:

Sample Received By:

Sample Tested By: Saro Kanaan

Freedom Farms, LLC

Registration #:

Registrant Name:

Registrant Contact #:



Summary

121.9535 mg/g Total Cannabinoids	Tested Pesticides	Not Tested Residual Solvents
Tested Microbials	Tested Mycotoxins	Tested Heavy Metals

Cannabinoids

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/g	%
CBGa	0.03164	0.499	117.4784	11.7478
CBG	0.06703	0.499	2.3697	0.2370
THCa	0.02198	0.499	2.1055	0.2106
CBDa	0.02098	0.499	<1mg/g	<LOQ
CBC	0.05253	0.499	ND	ND
CBD	0.08257	0.499	ND	ND
CBDV	0.06478	0.499	ND	ND
CBN	0.04143	0.499	ND	ND
THCV	0.07177	0.499	ND	ND
Δ8-THC	0.02351	0.499	ND	ND
Δ9-THC	0.02379	0.499	ND	ND
Total			121.9535	12.1954

ND
Δ9-THC

<1mg/g
Total CBD

Date Tested: 12/24/2020

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample;

Terpenes

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Guaiol	0.0167	0.0333	0.09	0.86
β-Caryophyllene	0.0087	0.0173	0.07	0.68
α-Bisabolol	0.0147	0.0295	0.05	0.50
β-Myrcene	0.012	0.024	0.04	0.44
trans-Nerolidol	0.0109	0.0219	0.03	0.30
α-Humulene	0.0086	0.0173	0.03	0.29
δ-Limonene	0.0079	0.0159	0.02	0.19
β-Pinene	0.0073	0.0146	<LOQ	<LOQ
α-Pinene	0.0087	0.0175	ND	ND
Camphene	0.0081	0.0163	ND	ND
Caryophyllene Oxide	0.0437	0.0873	ND	ND
Eucalyptol	0.0088	0.0175	ND	ND
Geraniol	0.0103	0.0205	ND	ND
Isopulegol	0.0141	0.0282	ND	ND
Linalool	0.0114	0.0228	ND	ND
Ocimene	0.0062	0.0124	ND	ND
p-Cymene	0.0081	0.0162	ND	ND
Terpinolene	0.0084	0.0168	ND	ND
α-Terpinene	0.0083	0.0165	ND	ND
γ-Terpinene	0.0084	0.0168	ND	ND
δ-3-Carene	0.008	0.016	ND	ND
Total			0.33	3.25

Date Tested: 12/23/2020

6.8% Moisture Moisture Analyzer SOP-103 Date Tested: 12/23/2020	Tested 0.370 aw Water Activity Water Activity Meter SOP-102 Date Tested: 12/28/2020	Tested Foreign Matter Visual Inspection SOP-600 Date Tested: 12/23/2020
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ISO / IEC 17025:2017 ACCREDITED
LABORATORY
Accreditation No. 73653

Douglas Duncan

Douglas Duncan
Lab Director
12/30/2020

Mikaela Gutierrez

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COA Review
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Pesticides

Testing method: LCMS & GCMS-SOP 301 and 302

Tested

Analyte	LOD	LOQ	Results	Analyte	LOD	LOQ	Results
	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g
Abamectin	0.0001	0.0006	ND	Fludioxonil	0.0074	0.0964	ND
Acephate	0.0025	0.0964	ND	Hexythiazox	0.0012	0.0964	ND
Acequinocyl	0.0025	0.0964	ND	Imazalil *	0.0099	0.0964	ND
Acetamiprid	0.0025	0.0964	ND	Imidacloprid	0.0025	0.0964	ND
Aldicarb *	0.0062	0.0964	ND	Kresoxim Methyl	0.0037	0.0964	ND
Azoxystrobin	0.0037	0.0964	ND	Malathion	0.0049	0.0964	ND
Bifenazate	0.0025	0.0964	ND	Metaxyl	0.0037	0.0964	ND
Bifenthrin	0.0074	0.0964	ND	Methiocarb *	0.0049	0.0964	ND
Boscalid	0.0074	0.0964	ND	Methomyl	0.0049	0.0964	ND
Captan	0.0235	0.1929	ND	Methyl Parathion *	0.0087	0.0482	ND
Carbaryl	0.0037	0.0964	ND	Mevinphos *	0.0025	0.0964	ND
Carbofuran *	0.0037	0.0964	ND	Myclobutanil	0.0062	0.0964	ND
Chlorantraniliprole	0.0062	0.0964	ND	Naled	0.0099	0.0964	ND
Chlordane *	0.0062	0.0482	ND	Oxamyl	0.0037	0.0964	ND
Chlorfenapyr *	0.0111	0.0482	ND	Paclobutrazol *	0.0049	0.0964	ND
Chlorpyrifos *	0.0037	0.0964	ND	Pentachloronitrobenzene	0.0037	0.0482	ND
Clofentezine	0.0049	0.0964	ND	Permethrin	0.0025	0.0964	ND
Coumaphos *	0.0025	0.0964	ND	Phosmet	0.0025	0.0964	ND
Cyfluthrin	0.0099	0.0964	ND	Piperonyl Butoxide	0.0012	0.0964	ND
Cypermethrin	0.0062	0.0964	ND	Prallethrin	0.0037	0.0964	ND
Daminozide *	0.0099	0.0964	ND	Propiconazole	0.0025	0.0964	ND
DDVP *	0.0025	0.0964	ND	Propoxur *	0.0025	0.0964	ND
Diazinon	0.0025	0.0964	ND	Pyrethrins	0.0001	0.0007	5.812
Dimethoate *	0.0025	0.0964	ND	Pyridaben	0.0124	0.0964	ND
Dimethomorph	0.0001	0.0008	ND	Spinetoram	0.0	0.0008	ND
Ethoprophos *	0.0037	0.0964	ND	Spinosad	0.0	0.0008	ND
Etofenprox *	0.0025	0.0964	ND	Spiromesifen	0.0025	0.0964	ND
Etoxazole	0.0025	0.0964	ND	Spirotetramat	0.0037	0.0964	ND
Fenhexamid	0.0025	0.0964	ND	Spiroxamine *	0.0012	0.0964	ND
Fenoxycarb *	0.0049	0.0964	ND	Tebuconazole	0.0124	0.0964	ND
Fenpyroximate	0.0025	0.0964	ND	Thiacloprid *	0.0025	0.0964	ND
Fipronil *	0.0148	0.0964	ND	Thiamethoxam	0.0025	0.0964	ND
Flonicamid	0.0049	0.0964	ND	Trifloxystrobin	0.0025	0.0964	ND

Date Tested: 12/28/2020

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


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Microbials

Testing method: PCR-SOP 401

Tested

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

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Mycotoxins

Testing method: LCMS-SOP 301

Tested

Analyte	LOD	LOQ	Results
	µg/kg	µg/kg	µg/kg
Aflatoxin B1	1.2364	4.822	ND
Aflatoxin B2	1.4837	5.0692	ND
Aflatoxin G1	0.9891	4.822	ND
Aflatoxin G2	0.8655	4.822	ND
Total Aflatoxins	0.037	0.158	ND
Ochratoxin A	0.8655	9.8912	ND

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Heavy Metals

Testing method: ICPMS-SOP 502

Tested

Analyte	LOD	LOQ	Results
	µg/g	µg/g	µg/g
Arsenic	0.00002475247524752475	0.0000495049504950495	0.050
Cadmium	0.00002475247524752475	0.0000495049504950495	0.135
Lead	0.00002475247524752475	0.0000495049504950495	0.108
Mercury	0.00002475247524752475	0.0000495049504950495	0.018

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