

Hemp Oil Extract

Sample ID: 2012CSALA4154.0572

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size:
Batch#: 2001

Produced: 12/23/2020

Collected: 12/23/2020

Received: 12/23/2020

Completed: 12/28/2020

Client
Freedom Farms, LLC
Lic. #

11216 Pendleton St

Sun Valley, CA 91352



Summary

Pass

2597.3137 mg/package Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/package	mg/ml
CBD	0.00885	0.05345	2586.2041	86.2068
CBDV	0.00694	0.05345	11.1096	0.3703
CBC	0.00563	0.05345	ND	ND
CBDa	0.00225	0.05345	ND	ND
CBG	0.00718	0.05345	ND	ND
CBGa	0.00339	0.05345	ND	ND
CBN	0.00444	0.05345	ND	ND
THCa	0.00235	0.05345	ND	ND
THCV	0.00769	0.05345	ND	ND
Δ8-THC	0.00252	0.05345	ND	ND
Δ9-THC	0.00255	0.05345	ND	ND
Total			2597.3137	86.5771

Terpenes

Not Tested

Testing method: HS-GC-FID – SOP 201

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 12/23/2020
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ND Total THC	2586.2041 mg/package Total CBD
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1 serving = 0.5 ml, 0.5 milliliters; Density = 0.9345 g/ml; 60.0 servings per package; 0.0 mg/package Total THC; 2586.2041 mg/package Total CBD;

Date Tested: 12/28/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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 Lab Director
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Pesticides

Testing method: LCMS & GCMS-SOP 301 and 302

Pass

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	0.0001	0.0006	0.3	ND	Pass	Fludioxonil	0.0075	0.0971	30	ND	Pass
Acephate	0.0025	0.0971	5	ND	Pass	Hexythiazox	0.0012	0.0971	2	ND	Pass
Acequinocyl	0.0025	0.0971	4	ND	Pass	Imazalil *	0.01	0.0971	0.01	ND	Pass
Acetamiprid	0.0025	0.0971	5	ND	Pass	Imidacloprid	0.0025	0.0971	3	ND	Pass
Aldicarb *	0.0062	0.0971	0.0062	ND	Pass	Kresoxim Methyl	0.0037	0.0971	1	ND	Pass
Azoxystrobin	0.0037	0.0971	40	ND	Pass	Malathion	0.005	0.0971	5	ND	Pass
Bifenazate	0.0025	0.0971	5	ND	Pass	Metalaxyl	0.0037	0.0971	15	ND	Pass
Bifenthrin	0.0075	0.0971	0.5	ND	Pass	Methiocarb *	0.005	0.0971	0.005	ND	Pass
Boscalid	0.0075	0.0971	10	ND	Pass	Methomyl	0.005	0.0971	0.1	ND	Pass
Captan	0.0237	0.1942	5	ND	Pass	Methyl Parathion *	0.0087	0.0486	0.0087	ND	Pass
Carbaryl	0.0037	0.0971	0.5	ND	Pass	Mevinphos *	0.0025	0.0971	0.0025	ND	Pass
Carbofuran *	0.0037	0.0971	0.0037	ND	Pass	Myclobutanil	0.0062	0.0971	9	ND	Pass
Chlorantraniliprole	0.0062	0.0971	40	ND	Pass	Naled	0.01	0.0971	0.5	ND	Pass
Chlordane *	0.0062	0.0486	0.0062	ND	Pass	Oxamyl	0.0037	0.0971	0.2	ND	Pass
Chlorfenapyr *	0.0112	0.0486	0.0112	ND	Pass	Paclobutrazol *	0.005	0.0971	0.005	ND	Pass
Chlorpyrifos *	0.0037	0.0971	0.0037	ND	Pass	Pentachloronitrobenzene	0.0037	0.0486	0.2	ND	Pass
Clofentezine	0.005	0.0971	0.5	ND	Pass	Permethrin	0.0025	0.0971	20	ND	Pass
Coumaphos *	0.0025	0.0971	0.0025	ND	Pass	Phosmet	0.0025	0.0971	0.2	ND	Pass
Cyfluthrin	0.01	0.0971	1	ND	Pass	Piperonyl Butoxide	0.0012	0.0971	8	ND	Pass
Cypermethrin	0.0062	0.0971	1	ND	Pass	Prallethrin	0.0037	0.0971	0.4	ND	Pass
Daminozide *	0.01	0.0971	0.01	ND	Pass	Propiconazole	0.0025	0.0971	20	ND	Pass
DDVP *	0.0025	0.0971	0.0025	ND	Pass	Propoxur *	0.0025	0.0971	0.0025	ND	Pass
Diazinon	0.0025	0.0971	0.2	ND	Pass	Pyrethrins	0.0001	0.0007	1	ND	Pass
Dimethoate *	0.0025	0.0971	0.0025	ND	Pass	Pyridaben	0.0125	0.0971	3	ND	Pass
Dimethomorph	0.0001	0.0008	20	ND	Pass	Spinetoram	0.0	0.0008	3	ND	Pass
Ethoprophos *	0.0037	0.0971	0.0037	ND	Pass	Spinosad	0.0	0.0008	3	ND	Pass
Etofenprox *	0.0025	0.0971	0.0025	ND	Pass	Spiromesifen	0.0025	0.0971	12	ND	Pass
Etoxazole	0.0025	0.0971	1.5	ND	Pass	Spirotetramat	0.0037	0.0971	13	ND	Pass
Fenhexamid	0.0025	0.0971	10	ND	Pass	Spiroxamine *	0.0012	0.0971	0.0012	ND	Pass
Fenoxycarb *	0.005	0.0971	0.005	ND	Pass	Tebuconazole	0.0125	0.0971	2	ND	Pass
Fenpyroximate	0.0025	0.0971	2	ND	Pass	Thiacloprid *	0.0025	0.0971	0.0025	ND	Pass
Fipronil *	0.0149	0.0971	0.0149	ND	Pass	Thiamethoxam	0.0025	0.0971	4.5	ND	Pass
Flonicamid	0.005	0.0971	2	ND	Pass	Trifloxystrobin	0.0025	0.0971	30	ND	Pass

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

Pass

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

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Mycotoxins

Testing method: LCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	1.245	4.8556		ND	Tested
Aflatoxin B2	1.494	5.1046		ND	Tested
Aflatoxin G1	0.996	4.8556		ND	Tested
Aflatoxin G2	0.8715	4.8556		ND	Tested
Total Aflatoxins	0.037	0.158	20	ND	Pass
Ochratoxin A	0.871513944223107569721115537848605578	9.960159362549800796812749004	20	ND	Pass

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Heavy Metals

Testing method: ICPMS-SOP 502

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.00002475247524752475	0.0000495049504950495	1.5	0.008	Pass
Cadmium	0.00002475247524752475	0.0000495049504950495	0.5	0.008	Pass
Lead	0.00002475247524752475	0.0000495049504950495	0.5	0.020	Pass
Mercury	0.00002475247524752475	0.0000495049504950495	3	0.012	Pass

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Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.4307	0.8615	1	ND	Pass
Acetone	51.9742	103.9483	5000	ND	Pass
Acetonitrile	7.1788	14.3575	410	ND	Pass
Benzene	0.5743	1.1486	1	ND	Pass
Butane	7.1788	14.3575	5000	ND	Pass
Chloroform	0.9332	1.8665	1	ND	Pass
Ethanol	7.1788	14.3575	5000	23	Pass
Ethyl acetate	7.1788	14.3575	5000	ND	Pass
Ethylene Oxide	0.4666	0.9332	1	ND	Pass
Ethyl ether	7.1788	14.3575	5000	ND	Pass
Heptane	7.1788	14.3575	5000	ND	Pass
Isopropyl alcohol	28.3202	56.6403	5000	ND	Pass
Methanol	99.318	198.636	3000	ND	Pass
Methylene chloride	0.3589	0.7179	1	ND	Pass
Hexane	7.1788	14.3575	290	ND	Pass
Pentane	7.1788	14.3575	5000	ND	Pass
Propane	20.6389	41.2778	5000	ND	Pass
Toluene	7.1788	14.3575	890	ND	Pass
Trichloroethylene	0.6102	1.2204	1	ND	Pass
Total xylenes	3.0	6.0	2170	ND	Pass

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