

NATIONAL CBD 50ml RELEAF BALM 50ml

Sample ID: 1912CSALA1464.8421
Matrix: Topical
Type: Other
Sample Size: 1 units
Batch Size:
Batch#: (50ML) LOT # L9018

Strain: CBD 50ml RELEAF BALM
Produced: N/A
Collected: 12/13/2019
Received: 12/13/2019
Completed: 01/13/2020

Client:
P&B Essentials, LLC
Lic. #
1190 N Lake St
Pasadena, CA 91104



Summary		Pass	
14.96 mg/ml	Pass	Pass	Pass
Total Cannabinoids	Pesticides	Residual Solvents	
Pass	Pass	Pass	
Microbials	Mycotoxins	Heavy Metals	

Cannabinoids

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	
			mg/ml	mg/package
CBD	0.00037	0.001	13.52	676.00
CBC	0.00014	0.001	0.66	33.00
CBG	0.00037	0.001	0.44	22.00
CBDV	0.0001	0.001	0.34	17.00
CBDa	0.0002	0.001	ND	ND
CBGa	0.0002	0.001	ND	ND
CBN	0.00016	0.001	ND	ND
THCa	0.00022	0.001	ND	ND
THCV	0.00039	0.001	ND	ND
Δ8-THC	0.00042	0.001	ND	ND
Δ9-THC	0.00042	0.001	ND	ND
Total			14.96	748.00

Pass

Terpenes

Testing method: HS-GC-FID - SOP 201

NT		NT		Pass	
Moisture	Water Activity	Foreign Matter		Visual Inspection	
Moisture Analyzer SOP-103	Water Activity Meter SOP-102	Visual Inspection SOP-600		Date Tested: 12/15/2019	

Not Tested

ND	13.52 mg/ml
Total THC	Total CBD

1 serving = 1 Jar, 50.0 milliliters; Density = 1.0 g/ml; 1.0 servings per package; 0.0 mg/package Total THC; 676.0 mg/package Total CBD;

Date Tested: 12/18/2019

Total THC = THCa * 0.877 + Δ9-THC

Total CBD = CBDa * 0.877 + CBD

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

Notes

NATIONAL



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

M. Speakman

Mallory Speakman
Laboratory Director - LA
01/13/2020

A. Engen

Anya Engen
Quality Review
01/13/2020

A. Bravo

Amanda Bravo
COA Review
01/13/2020

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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	0.0009	0.003	0.3	ND	Pass	Fludioxonil	0.0143	0.048	30.0	ND	Pass
Acephate	0.005	0.017	5.0	ND	Pass	Hexythiazox	0.0237	0.079	2.0	ND	Pass
Acequinocyl	0.0193	0.064	4.0	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamiprid	0.0073	0.024	5.0	ND	Pass	Imidacloprid	0.0053	0.018	3.0	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	1.0	ND	Pass
Azoxystrobin	0.015	0.05	40.0	ND	Pass	Malathion	0.015	0.05	5.0	ND	Pass
Bifenazate	0.0129	0.043	5.0	ND	Pass	Metalaxyl	0.0076	0.025	15.0	ND	Pass
Bifenthrin	0.029	0.097	0.5	ND	Pass	Methiocarb *	0.0103	0.034	0.0103	ND	Pass
Boscalid	0.0172	0.058	10.0	ND	Pass	Methomyl	0.0109	0.036	0.1	ND	Pass
Captan	0.036	0.12	5.0	ND	Pass	Methyl Parathion *	0.0091	0.0303	0.0091	ND	Pass
Carbaryl	0.0542	0.181	0.5	ND	Pass	Mevinphos *	0.0041	0.014	0.0041	ND	Pass
Carbofuran *	0.0077	0.026	0.0077	ND	Pass	Myclobutanil	0.01	0.033	9.0	ND	Pass
Chlorantraniliprole	0.0095	0.032	40.0	ND	Pass	Naled	0.0107	0.036	0.5	ND	Pass
Chlordane *	0.0055	0.0182	0.0055	ND	Pass	Oxamyl	0.0071	0.024	0.2	ND	Pass
Chlorfenapyr *	0.0048	0.0159	0.0048	ND	Pass	Padobutrazol *	0.0092	0.031	0.0092	ND	Pass
Chlorpyrifos *	0.0197	0.066	0.0197	ND	Pass	Pentachloronitrobenzene	0.0084	0.0279	0.2	ND	Pass
Clofentezine	0.0216	0.072	0.5	ND	Pass	Permethrin	0.0142	0.048	20.0	ND	Pass
Coumaphos *	0.0196	0.065	0.0196	ND	Pass	Phosmet	0.0138	0.046	0.2	ND	Pass
Cyfluthrin	0.0107	0.036	1.0	ND	Pass	Piperonyl Butoxide	0.0156	0.052	8.0	ND	Pass
Cypermethrin	0.0105	0.035	1.0	ND	Pass	Prallethrin	0.018	0.06	0.4	ND	Pass
Daminozide *	0.0052	0.017	0.0052	ND	Pass	Propiconazole	0.013	0.043	20.0	ND	Pass
DDVP *	0.0081	0.027	0.0081	ND	Pass	Propoxur *	0.0097	0.033	0.0097	ND	Pass
Diazinon	0.0134	0.045	0.2	ND	Pass	Pyrethrins	0.0025	0.008	1.0	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	3.0	ND	Pass
Dimethomorph	0.0025	0.008	20.0	ND	Pass	Spinetoram	0.0042	0.014	3.0	ND	Pass
Ethoprofos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	3.0	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	12.0	ND	Pass
Etoazole	0.0269	0.09	1.5	ND	Pass	Spirotetramat	0.0068	0.023	13.0	ND	Pass
Fenhexamid	0.0215	0.072	10.0	ND	Pass	Spiroxamine *	0.0065	0.022	0.0065	ND	Pass
Fenoxycarb *	0.0186	0.062	0.0186	ND	Pass	Tebuconazole	0.0099	0.033	2.0	ND	Pass
Fenpyroximate	0.0253	0.084	2.0	ND	Pass	Thiacloprid *	0.0094	0.031	0.0094	ND	Pass
Fipronil *	0.0228	0.076	0.0228	ND	Pass	Thiamethoxam	0.005	0.017	4.5	ND	Pass
Flonicamid	0.0073	0.024	2.0	ND	Pass	Trifloxystrobin	0.0192	0.064	30.0	ND	Pass

Date Tested: 12/17/2019

* 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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 Laboratory Director - LA
 01/13/2020



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 Quality Review
 01/13/2020



 Amanda Bravo
 COA Review
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Type: Other	Collected: 12/13/2019	Lic. #
Sample Size: 1 units	Received: 12/13/2019	1190 N Lake St
Batch Size:	Completed: 01/13/2020	Pasadena, CA 91104
Batch#: (50ML) LOT# L9018		

Microbials

Testing method: PCR-SOP 400

Pass

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: 12/17/2019

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Mycotoxins

Testing method: LCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Results	Status
Aflatoxin B1	µg/kg	µg/kg	µg/kg	µg/kg	Tested
Aflatoxin B2	0.0036	0.012		ND	Tested
Aflatoxin G1	0.0092	0.031		ND	Tested
Aflatoxin G2	0.0058	0.019		ND	Tested
Total Aflatoxins	0.0034	0.011		ND	Tested
Ochratoxin A			20.0	ND	Pass
	0.0113	0.038	20.0	ND	Pass

Date Tested: 12/17/2019

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Heavy Metals

Testing method: ICPMS-SOP 502

Pass

Analyte	LOD	LOQ	Limit	Results	Status
Arsenic	µg/g	µg/g	µg/g	µg/g	Pass
Cadmium	0.02	0.06	1.5	ND	Pass
Lead	0.03	0.1	0.5	ND	Pass
Mercury	0.002	0.005	0.5	0.074	Pass
	0.02	0.06	3.0	ND	Pass

Date Tested: 12/16/2019

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Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
1,2-Dichloro-Ethane	0.1	0.4	1	ND	Pass
Acetone	64.0	214.0	5000	ND	Pass
Acetonitrile	36.0	119.0	410	ND	Pass
Benzene	0.1	0.2	1	ND	Pass
Butane	42.0	141.0	5000	ND	Pass
Chloroform	0.1	0.4	1	ND	Pass
Ethanol	59.0	197.0		ND	Tested
Ethyl-Acetate	43.0	144.0	5000	ND	Pass
Ethylene Oxide	0.2	0.6	1	ND	Pass
Ethyl-Ether	40.0	134.0	5000	ND	Pass
Heptane	46.0	154.0	5000	ND	Pass
Isopropanol	41.0	138.0		ND	Tested
Methanol	160.0	534.0	3000	ND	Pass
Methylene-Chloride	0.1	0.4	1	ND	Pass
n-Hexane	42.0	139.0	290	ND	Pass
Pentane	69.0	229.0	5000	ND	Pass
Propane	21.0	70.0	5000	ND	Pass
Toluene	47.0	156.0	890	ND	Pass
Trichloroethene	0.1	0.4	1	ND	Pass
Xylenes	86.0	287.0	2170	ND	Pass

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