



CannaSafe

CannaSafe - LA
7027 Hayvenhurst Ave.
Van Nuys, CA 91406

(818) 922-2416
<https://www.csalabs.com>
Lic# C8-000040-LIC

R&D Testing

CBD Releaf Body Oil

Sample ID: 2009CSALA1267.3515

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake Ave

Pasadena, CA 91104



Summary

Pass

458.13
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	0.0059	0.018	404.93	7.13
CBC	0.0009	0.0027	21.17	0.37
CBG	0.0047	0.0143	12.48	0.22
CBDV	0.0042	0.0126	10.31	0.18
Δ9-THC	0.0038	0.0115	9.23	0.16
CBDa	0.0012	0.0037	ND	ND
CBGa	0.0016	0.005	ND	ND
CBN	0.0014	0.0041	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Total			458.13	8.06

9.23 mg/package

Total THC

404.93 mg/package

Total CBD

Package = 1 bottle, 2.0 fluid ounces; Density = 0.9552 g/ml; 9.23 mg/package

Total THC; 404.93 mg/package Total CBD;

Date Tested: 09/24/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Linalool	0.008	0.0228	1.32	13.23
Eucalyptol	0.006	0.0175	1.23	12.32
δ-Limonene	0.005	0.0159	0.27	2.66
γ-Terpinene	0.006	0.0168	0.17	1.67
β-Caryophyllene	0.006	0.0173	0.11	1.10
α-Terpinene	0.005	0.0165	0.09	0.90
Ocimene	0.004	0.0109	0.08	0.85
α-Pinene	0.006	0.0175	0.08	0.76
β-Myrcene	0.008	0.024	0.07	0.74
δ-3-Carene	0.005	0.016	0.06	0.56
Isopulegol	0.009	0.0282	0.04	0.41
Caryophyllene Oxide	0.029	0.0874	<LOQ	<LOQ
β-Pinene	0.005	0.0147	0.03	0.30
Terpinolene	0.006	0.0168	0.03	0.29
Camphene	0.005	0.0163	ND	ND
Geraniol	0.007	0.0205	ND	ND
Guaial	0.011	0.0334	ND	ND
p-Cymene	0.005	0.0162	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
α-Bisabolol	0.01	0.0295	ND	ND
α-Humulene	0.006	0.0173	ND	ND
Total			3.62	36.15

Date Tested: 09/23/2020

NT
Moisture

Moisture Analyzer SOP-103

Pass
0.410 aw
Water Activity

Water Activity Meter SOP-102
Date Tested: 09/23/2020

Pass
Foreign Matter

Visual Inspection SOP-600
Date Tested: 09/22/2020



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

Douglas Duncan

Douglas Duncan
Lab Director
09/24/2020

Musa Aman

Musa Aman
COA Review
09/24/2020

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CBD Releaf Body Oil

Sample ID: 2009CSALA1267.3515

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake Ave

Pasadena, CA 91104

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	ND	Pass
Acephate	0.005	0.017	5	ND	Pass	Hexythiazox	0.0237	0.079	2	ND	Pass
Acequinocyl	0.0193	0.064	4	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamiprid	0.0073	0.024	5	ND	Pass	Imidacloprid	0.0053	0.018	3	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	1	ND	Pass
Azoxystrobin	0.015	0.05	40	ND	Pass	Malathion	0.015	0.05	5	ND	Pass
Bifenazate	0.0129	0.043	5	ND	Pass	Metaxalyl	0.0076	0.025	15	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	ND	Pass	Methomyl	0.0109	0.036	0.1	ND	Pass
Captan	0.036	0.12	5	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	ND	Pass
Chlorantraniliprole	0.0095	0.032	40	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	Paclobutrazol *	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	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	ND	Pass	Piperonyl Butoxide	0.0156	0.052	8	ND	Pass
Cypermethrin	0.0105	0.035	1	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	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	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	3	ND	Pass
Dimethomorph	0.0025	0.008	20	ND	Pass	Spinetoram	0.0042	0.014	3	ND	Pass
Ethoprophos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	3	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	12	ND	Pass
Etoxazole	0.0269	0.09	1.5	ND	Pass	Spirotetramat	0.0068	0.023	13	ND	Pass
Fenhexamid	0.0215	0.072	10	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	ND	Pass
Fenpyroximate	0.0253	0.084	2	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	ND	Pass	Trifloxystrobin	0.0192	0.064	30	ND	Pass

Date Tested: 09/24/2020

* 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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09/24/2020

Musa Aman

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CBD Releaf Body Oil

Sample ID: 2009CSALA1267.3515

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

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P&B Essentials, LLC

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Microbials

Pass

Testing method: PCR-SOP 401

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

Date Tested: 09/24/2020

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.0036	0.012		ND	Tested
Aflatoxin B2	0.0092	0.031		ND	Tested
Aflatoxin G1	0.0058	0.019		ND	Tested
Aflatoxin G2	0.0034	0.011		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.0113	0.038	20	ND	Pass

Date Tested: 09/24/2020

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	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.046	Pass
Mercury	0.02	0.06	3	ND	Pass

Date Tested: 09/23/2020

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



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CBD Releaf Body Oil

Sample ID: 2009CSALA1267.3515

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

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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-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

Date Tested: 09/24/2020

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R&D Testing

CBD Releaf Body oil

Sample ID: 2009CSALA1267.3516

Matrix: Topical

Type: Body Oil

Sample Size: 15 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake Ave

Pasadena, CA 91104



Summary

Pass

16.08
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	0.0059	0.018	14.21	7.11
CBC	0.0009	0.0027	0.74	0.37
CBG	0.0047	0.0143	0.44	0.22
CBDV	0.0042	0.0126	0.36	0.18
Δ9-THC	0.0038	0.0115	0.32	0.16
CBDa	0.0012	0.0037	ND	ND
CBGa	0.0016	0.005	ND	ND
CBN	0.0014	0.0041	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Total			16.08	8.04

0.32 mg/package

Total THC

14.21 mg/package

Total CBD

Package = 1 Bottle, 2.0 milliliters; Density = 0.9527 g/ml; 0.32 mg/package

Total THC; 14.21 mg/package Total CBD;

Date Tested: 09/24/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Linalool	0.008	0.0228	1.23	12.29
Eucalyptol	0.006	0.0175	1.12	11.19
δ-Limonene	0.005	0.0159	0.24	2.42
γ-Terpinene	0.006	0.0168	0.15	1.48
β-Caryophyllene	0.006	0.0173	0.10	1.04
α-Terpinene	0.005	0.0165	0.08	0.84
Ocimene	0.004	0.0109	0.08	0.79
β-Myrcene	0.008	0.024	0.07	0.71
α-Pinene	0.006	0.0175	0.07	0.70
δ-3-Carene	0.005	0.016	0.05	0.53
Isopulegol	0.009	0.0282	0.04	0.38
β-Pinene	0.005	0.0147	0.03	0.28
Terpinolene	0.006	0.0168	0.03	0.27
Camphene	0.005	0.0163	ND	ND
Caryophyllene Oxide	0.029	0.0874	ND	ND
Geraniol	0.007	0.0205	ND	ND
Guaiol	0.011	0.0334	ND	ND
p-Cymene	0.005	0.0162	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
α-Bisabolol	0.01	0.0295	ND	ND
α-Humulene	0.006	0.0173	ND	ND
Total			3.29	32.92

Date Tested: 09/23/2020

NT

Moisture

Moisture Analyzer SOP-103

Pass

0.430 aw
Water Activity

Water Activity Meter SOP-102

Date Tested: 09/23/2020

Pass

Foreign Matter

Visual Inspection SOP-600

Date Tested: 09/23/2020



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R&D Testing

CBD Releaf Body oil

Sample ID: 2009CSALA1267.3516

Matrix: Topical

Type: Body Oil

Sample Size: 15 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

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Pasadena, CA 91104

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	ND	Pass
Acephate	0.005	0.017	5	ND	Pass	Hexythiazox	0.0237	0.079	2	ND	Pass
Acequinocyl	0.0193	0.064	4	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamiprid	0.0073	0.024	5	ND	Pass	Imidacloprid	0.0053	0.018	3	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	1	ND	Pass
Azoxystrobin	0.015	0.05	40	ND	Pass	Malathion	0.015	0.05	5	ND	Pass
Bifenazate	0.0129	0.043	5	ND	Pass	Metaxyl	0.0076	0.025	15	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	ND	Pass	Methomyl	0.0109	0.036	0.1	ND	Pass
Captan	0.036	0.12	5	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	ND	Pass
Chlorantraniliprole	0.0095	0.032	40	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	Paclobutrazol *	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	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	ND	Pass	Piperonyl Butoxide	0.0156	0.052	8	ND	Pass
Cypermethrin	0.0105	0.035	1	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	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	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	3	ND	Pass
Dimethomorph	0.0025	0.008	20	ND	Pass	Spinetoram	0.0042	0.014	3	ND	Pass
Ethoprophos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	3	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	12	ND	Pass
Etoxazole	0.0269	0.09	1.5	ND	Pass	Spirotetramat	0.0068	0.023	13	ND	Pass
Fenhexamid	0.0215	0.072	10	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	ND	Pass
Fenpyroximate	0.0253	0.084	2	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	ND	Pass	Trifloxystrobin	0.0192	0.064	30	ND	Pass

Date Tested: 09/24/2020

* 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
09/24/2020

Musa Aman
COA Review
09/24/2020

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CannaSafe

CannaSafe - LA
7027 Hayvenhurst Ave.
Van Nuys, CA 91406

(818) 922-2416
<https://www.csalabs.com>
Lic# C8-0000040-LIC

R&D Testing

CBD Releaf Body oil

Sample ID: 2009CSALA1267.3516

Matrix: Topical

Type: Body Oil

Sample Size: 15 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake Ave

Pasadena, CA 91104

Microbials

Pass

Testing method: PCR-SOP 401

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

Date Tested: 09/24/2020

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.0036	0.012		ND	Tested
Aflatoxin B2	0.0092	0.031		ND	Tested
Aflatoxin G1	0.0058	0.019		ND	Tested
Aflatoxin G2	0.0034	0.011		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.0113	0.038	20	ND	Pass

Date Tested: 09/24/2020

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	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.1	Pass
Mercury	0.02	0.06	3	ND	Pass

Date Tested: 09/23/2020

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



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Douglas Duncan

Douglas Duncan
Lab Director
09/24/2020

Musa Aman

Musa Aman
COA Review
09/24/2020

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Lic# C8-000040-LIC

R&D Testing

CBD Releaf Body oil

Sample ID: 2009CSALA1267.3516

Matrix: Topical

Type: Body Oil

Sample Size: 15 units

Batch Size:

Batch#: G0097

Produced: N/A

Collected: 09/22/2020

Received: 09/22/2020

Completed: 09/24/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake Ave

Pasadena, CA 91104

Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
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

Date Tested: 09/24/2020

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



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Douglas Duncan
Lab Director

09/24/2020

Musa Aman
COA Review

09/24/2020

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Van Nuys, CA 91406

(818) 922-2416
<https://www.csalabs.com>
Lic# CB-0000040-LIC

R&D Testing

National CBD 60ml Releaf Body Oil

Sample ID: 1912CSALA1530.8577

Strain: 60ml Releaf Body Oil

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: LOT# L9049

Produced: N/A

Collected: 12/17/2019

Received: 12/17/2019

Completed: 01/13/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake St

Pasadena, CA 91104



Summary

Pass

7.67 mg/ml

Pass

Pass

Total Cannabinoids

Pesticides

Residual Solvents

Pass

Pass

Pass

Microbials

Mycotoxins

Heavy Metals

Cannabinoids

Testing method: HPLC-SOP 101

Pass

Terpenes

Testing method: HS-GC-FID - SOP 201

Not Tested

Analyte	LOD	LOQ	Results	Results
	mg/ml	mg/ml	mg/ml	mg/package
CBD	0.00037	0.001	6.70	402.00
CBC	0.00014	0.001	0.34	20.40
CBDV	0.0001	0.001	0.22	13.20
CBG	0.00037	0.001	0.22	13.20
Δ9-THC	0.00042	0.001	0.19	11.40
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
Total			7.67	460.20

NT

Moisture

Moisture Analyzer SOP-103

NT

Water Activity

Water Activity Meter SOP-102

Pass

Foreign Matter

Visual Inspection SOP-600

Date Tested: 12/17/2019

0.19 mg/ml

Total THC

6.70 mg/ml

Total CBD

1 serving = 1 Bottle, 60.0 milliliters; Density = 1.0 g/ml; 1.0 servings per package; 11.4 mg/package Total THC; 402.0 mg/package Total CBD;

Date Tested: 12/18/2019

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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



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Accreditation No. 73653

M. Speakman

Mallory Speakman
Laboratory Director - LA
01/13/2020

A. Engen

Anya Engen
Quality Review
01/13/2020

Amanda Bravos

Amanda Bravo
COA Review
01/13/2020

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Lic# CB-0000040-LIC

R&D Testing

National CBD 60ml Releaf Body Oil

Sample ID: 1912CSALA1530.8577

Strain: 60ml Releaf Body Oil

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: LOT# L9049

Produced: N/A

Collected: 12/17/2019

Received: 12/17/2019

Completed: 01/13/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake St

Pasadena, CA 91104

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	0.0009	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	Paclobutrazol *	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
Ethoprophos *	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
Etiozole	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
Fonicamid	0.0073	0.024	2.0	ND	Pass	Trifloxystrobin	0.0192	0.064	30.0	ND	Pass

Date Tested: 12/18/2019

* 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

M. Speakman

Mallory Speakman
Laboratory Director - LA
01/13/2020

A. Engen

Anya Engen
Quality Review
01/13/2020

Amanda Brava

Amanda Brava
COA Review
01/13/2020

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Van Nuys, CA 91406

(818) 922-2416
<https://www.csalabs.com>
Lic# C8-000040-LIC

R&D Testing

National CBD 60ml Releaf Body Oil

Sample ID: 1912CSALA1530.8577

Strain: 60ml Releaf Body Oil

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: LOT# L9049

Produced: N/A

Collected: 12/17/2019

Received: 12/17/2019

Completed: 01/13/2020

Client

P&B Essentials, LLC

Lic. #

1190 N Lake St

Pasadena, CA 91104

Microbials

Pass

Testing method: PCR-SOP 400

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: 12/19/2019

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

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

Date Tested: 12/18/2019

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	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.066	Pass
Mercury	0.02	0.06	3.0	ND	Pass

Date Tested: 12/18/2019

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



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M. Speakman

Mallory Speakman
Laboratory Director - LA
01/13/2020

A. Engen

Anya Engen
Quality Review
01/13/2020

Amanda Bravo

Amanda Bravo
COA Review
01/13/2020

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https://www.csalabs.com
Lic# C8-000040-LIC

R&D Testing

National CBD 60ml Releaf Body Oil

Sample ID: 1912CSALA1530.8577

Strain: 60ml Releaf Body Oil

Client

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#: LOT# L9049

Produced: N/A

Collected: 12/17/2019

Received: 12/17/2019

Completed: 01/13/2020

P&B Essentials, LLC

Lic. #

1190 N Lake St

Pasadena, CA 91104

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
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

Date Tested: 12/18/2019

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



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M. Speakman

Mallory Speakman
Laboratory Director - LA
01/13/2020

A. Engen

Any Engen
Quality Review
01/13/2020

Amanda Bravo

Amanda Bravo
COA Review
01/13/2020

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Releaf Body Oil (60ml) (National)

Sample ID: 2004CSALA5283.8497

Strain: Releaf Body Oil (60ml)

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104



Summary

Pass

492.63
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	0.0059	0.018	434.44	7.24
CBC	0.0009	0.0027	20.74	0.35
CBG	0.0047	0.0143	13.83	0.23
CBDV	0.0042	0.0126	12.10	0.20
Δ9-THC	0.0038	0.0115	11.52	0.19
CBDa	0.0012	0.0037	ND	ND
CBGa	0.0016	0.005	ND	ND
CBN	0.0014	0.0041	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Total			492.63	8.21

11.52 mg/package

Total THC

434.44 mg/package

Total CBD

1 serving = 1 Bottle, 60.0 milliliters; Density = 0.9603 g/ml; 1.0 servings per package; 11.52 mg/package Total THC; 434.44 mg/package Total CBD;

Date Tested: 04/03/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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

Terpenes

Not Tested

Testing method: HS-GC-FID - SOP 201

NT

Moisture

Moisture Analyzer SOP-103

NT

Water Activity

Water Activity Meter SOP-102

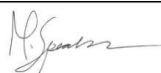
Pass

Foreign Matter

Visual Inspection SOP-600

Date Tested: 04/02/2020


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



Mallory Speakman
Laboratory Director - LA
04/03/2020



Anya Engen
Quality Review
04/03/2020



Musa Aman
COA Review
04/03/2020

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https://www.csalabs.com
Lic# C8-0000040-LIC

R&D Testing

Releaf Body Oil (60ml) (National)

Sample ID: 2004CSALA5283.8497

Strain: Releaf Body Oil (60ml)

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104

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	0.0009	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	Metaxyl	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	Paclobutrazol *	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
Ethoprophos *	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
Etiozazole	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: 04/03/2020

* 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

M. Speakman

Mallory Speakman
Laboratory Director - LA
04/03/2020

A. Engen

Anya Engen
Quality Review
04/03/2020

M. Aman

Musa Aman
COA Review
04/03/2020

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CannaSafe

CannaSafe - LA
7027 Hayvenhurst Ave.
Van Nuys, CA 91406

(818) 922-2416
<https://www.csalabs.com>
Lic# C8-0000040-LIC

R&D Testing

Releaf Body Oil (60ml) (National)

Sample ID: 2004CSALA5283.8497

Strain: Releaf Body Oil (60ml)

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104

Microbials

Pass

Testing method: PCR-SOP 400

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: 04/03/2020

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

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

Date Tested: 04/03/2020

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	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.015	Pass
Mercury	0.02	0.06	3.0	ND	Pass

Date Tested: 04/03/2020

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



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Mallory Speakman
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Quality Review
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COA Review
04/03/2020

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R&D Testing

Releaf Body Oil (60ml) (National)

Sample ID: 2004CSALA5283.8497

Strain: Releaf Body Oil (60ml)

Matrix: Topical

Type: Body Oil

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
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

Date Tested: 04/03/2020

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Mallory Speakman
Laboratory Director - LA
04/03/2020

Anya Engen
Quality Review
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Musa Aman
COA Review
04/03/2020

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Releaf Body Oil Samples 2ml (National) QTY: 8x

Sample ID: 2004CSALA5283.8500

Strain: Releaf Body Oil 2ml

Matrix: Topical

Type: Body Oil

Sample Size: 8 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104



Summary

Pass

16.10
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	0.0059	0.018	14.22	7.11
CBC	0.0009	0.0027	0.66	0.33
CBG	0.0047	0.0143	0.45	0.23
Δ9-THC	0.0038	0.0115	0.40	0.20
CBDV	0.0042	0.0126	0.38	0.19
CBDa	0.0012	0.0037	ND	ND
CBGa	0.0016	0.005	ND	ND
CBN	0.0014	0.0041	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Total			16.10	8.05

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: 04/02/2020
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0.40 mg/package

Total THC

14.22 mg/package

Total CBD

1 serving = 1 Bottle, 2.0 milliliters; Density = 0.9418 g/ml; 1.0 servings per package; 0.4 mg/package Total THC; 14.22 mg/package Total CBD;

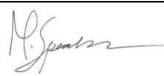
Date Tested: 04/03/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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


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Mallory Speakman
Laboratory Director - LA
04/03/2020



Anya Engen
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04/03/2020



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R&D Testing

Releaf Body Oil Samples 2ml (National) QTY: 8x

Sample ID: 2004CSALA5283.8500

Strain: Releaf Body Oil 2ml

Matrix: Topical

Type: Body Oil

Sample Size: 8 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104

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	0.0009	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	Metaxyl	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	Paclobutrazol *	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
Ethoprophos *	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
Etoxazole	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: 04/03/2020

* 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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R&D Testing

Releaf Body Oil Samples 2ml (National) QTY: 8x

Sample ID: 2004CSALA5283.8500

Strain: Releaf Body Oil 2ml

Matrix: Topical

Type: Body Oil

Sample Size: 8 units

Batch Size:

Batch#:

Produced: N/A

Collected: 04/02/2020

Received: 04/02/2020

Completed: 04/03/2020

Client

P&B Essentials, LLC

Lic. #

1192 N. Lake Ave, Pasadena, CA, 91104

Microbials

Pass

Testing method: PCR-SOP 400

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: 04/03/2020

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

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

Date Tested: 04/03/2020

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	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.018	Pass
Mercury	0.02	0.06	3.0	ND	Pass

Date Tested: 04/03/2020

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



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