

# National Relief Balm CBD .5 fl. oz./15ml

Sample ID: 1912CSALA1785.9316

Strain: National Balm

Matrix: Topical

Type: Other

Sample Size: 1 units

Batch Size:

Batch#: LOT# L9018

Produced: N/A

Collected: 12/26/2019

Received: 12/26/2019

Completed: 01/13/2020

Client:

P&B Essentials, LLC

Lic. #

1190 N Lake St

Pasadena, CA 91104



## Summary

Pass

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

## Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/ml	mg/ml	mg/ml	mg/package
CBD	0.00037	0.001	12.45	186.75
CBC	0.00014	0.001	0.62	9.30
CBG	0.00037	0.001	0.40	6.00
CBDV	0.0001	0.001	0.36	5.40
Δ9-THC	0.00042	0.001	0.36	5.40
CBDa	0.0002	0.001	0.03	0.45
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
<b>Total</b>			<b>14.22</b>	<b>213.30</b>

0.36 mg/ml	12.48 mg/ml
Total THC	Total CBD

1 serving = 1 Jar, 15.0 milliliters; Density = 1.0 g/ml; 1.0 servings per package; 5.4 mg/package Total THC; 187.14 mg/package Total CBD;

Date Tested: 12/27/2019

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.

Notes  
NATIONAL

## Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Eucalyptol	0.00017	0.0013	0.53	5.34
Linalool	0.00015	0.0013	0.38	3.84
γ-Terpinene	0.00012	0.0013	0.11	1.10
δ-Limonene	0.00016	0.0013	0.10	1.01
β-Myrcene	0.00012	0.0013	0.07	0.67
β-Caryophyllene	0.00017	0.0013	0.04	0.37
α-Terpinene	0.00012	0.0013	0.04	0.37
Camphene	0.00072	0.0013	ND	ND
Caryophyllene Oxide	0.00017	0.0013	ND	ND
Geraniol	0.00013	0.0013	ND	ND
Guaiol	0.00018	0.0013	ND	ND
Isopulegol	0.00011	0.0013	ND	ND
Ocimene	0.00013	0.0013	ND	ND
p-Cymene	0.0001	0.0013	ND	ND
Terpinolene	0.00016	0.0013	ND	ND
trans-Nerolidol	0.00058	0.0013	ND	ND
α-Bisabolol	0.00015	0.0013	ND	ND
α-Humulene	0.00057	0.0013	ND	ND
α-Pinene	0.00015	0.0013	ND	ND
β-Pinene	0.00034	0.0013	ND	ND
δ-3-Carene	0.0004	0.0013	ND	ND
<b>Total</b>			<b>1.27</b>	<b>12.70</b>

Date Tested: 12/26/2019

NT	NT	Pass
Moisture	Water Activity	Foreign Matter
Moisture Analyzer SOP-103	Water Activity Meter SOP-102	Visual Inspection SOP-600
-	-	Date Tested: 12/26/2019



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



*M. Speakman*  
Mallory Speakman  
Laboratory Director - LA  
01/13/2020

*Any Engen*  
Any Engen  
Quality Review  
01/13/2020

*Amanda Bravo*  
Amanda Bravo  
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## Pesticides

**Pass**

Testing method: LCMS &amp; 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	Pacllobutrazol *	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
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	Thiadoprid *	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: 12/27/2019

\* 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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 Mallory Speakman  
 Laboratory Director - LA  
 01/13/2020



 Anya Engen  
 Quality Review  
 01/13/2020



 Amanda Bravo  
 COA Review  
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### 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: 12/27/2019

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### 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: 12/27/2019

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### 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	0.074	Pass
Mercury	0.02	0.06	3.0	ND	Pass

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### 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

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 PJLA  
 Testing  
Established 1988



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