



Certificate of Analysis

Powered by Confident Cannabis

Pacific Roots LLC

13790 Bridgewater Crossings Blvd., #1080
 Windermere, Florida 34786
 (702) 965-3245

Sample: 2203DBL0124.1630

METRC Sample:
 Lot #: 50064B

Strain: N/A

Ordered: 03/11/2022; Sampled: 03/16/2022; Completed: 03/24/2022

CBD Muscle Cream

Topical, Lotion, Alcohol



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS



891.558 mg/unit
 Total Terpenes

Compound	LOQ	Mass	Mass	Relative Concentration
	mg/unit	mg/unit	mg/g	
Eucalyptol	8.296	327.664	5.461	
δ-Limonene	8.296	171.876	2.865	
α-Pinene	8.296	95.894	1.598	
p-Cymene	8.296	61.593	1.027	
β-Pinene	8.296	44.761	0.746	
Terpinolene	8.296	40.195	0.670	
Isopulegol	8.296	38.496	0.642	
γ-Terpinene	8.296	24.956	0.416	
α-Terpinene	8.296	23.416	0.390	
β-Caryophyllene	8.296	23.310	0.388	
β-Myrcene	8.296	15.823	0.264	
trans-Nerolidol	2.904	9.876	0.165	
Camphene	8.296	8.973	0.150	
trans-Ocimene	2.904	4.726	0.079	
α-Bisabolol	8.296	<LOQ	<LOQ	
α-Humulene	8.296	<LOQ	<LOQ	
Caryophyllene Oxide	8.296	<LOQ	<LOQ	
cis-Nerolidol	5.393	<LOQ	<LOQ	
cis-Ocimene	5.393	<LOQ	<LOQ	
δ-3-Carene	8.296	<LOQ	<LOQ	
Geraniol	8.296	<LOQ	<LOQ	
Guaiol	8.296	<LOQ	<LOQ	
Linalool	8.296	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

0.04 %
 Δ9-THC + Δ8-THC

602.031 mg/unit
 CBD

Not Tested

pH: NT
 Aw: NT

659.731 mg/unit
 Total Cannabinoids

Not Tested
 Homogeneity

Compound	LOQ	Mass	Mass	Relative Concentration
	mg/unit	mg/unit	mg/g	
CBC	2.811	12.765	0.213	
CBCa	2.811	<LOQ	<LOQ	
CBD	2.811	602.031	10.034	
CBDa	2.811	<LOQ	<LOQ	
CBDV	2.811	4.662	0.078	
CBDVa	2.811	<LOQ	<LOQ	
CBG	2.811	15.067	0.251	
CBGa	2.811	<LOQ	<LOQ	
CBL	2.811	<LOQ	<LOQ	
CBN	2.811	<LOQ	<LOQ	
Δ8-THC	2.811	<LOQ	<LOQ	
Δ9-THC	2.811	25.205	0.420	
THCa	2.811	<LOQ	<LOQ	
THCV	2.811	<LOQ	<LOQ	
THCVa	2.811	<LOQ	<LOQ	

1 Unit = CBD Muscle Cream, 60g

Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD



Benjamin G.M. Chew
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 Laboratory Director

Glen Marquez
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 Quality Control



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CBD Muscle Cream

Topical, Lotion, Alcohol



Pesticides

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	0	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	0	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	0	<LOQ	Pass
Daminozide	10	0	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclbutrazol	10	0	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Bile-Tolerant Gram-Negative Bacteria	9	1000	<LOQ	Pass
Yeast & Mold	9	10000	<LOQ	Pass

Qualitative Analysis	Detected or Not Detected	Status
E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass

Mycotoxins

Analyzed by 300.2 Elisa

Pass

Mycotoxin	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Aflatoxins	4.0	20.0	<LOQ	Pass
Ochratoxin A	2.0	20.0	3.2	Pass

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	46	2000	<LOQ	Pass
Cadmium	46	820	<LOQ	Pass
Lead	46	1200	<LOQ	Pass
Mercury	46	400	<LOQ	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	88	500	<LOQ	Pass
Ethanol	88		13951	Tested
Heptanes	88	500	<LOQ	Pass
Propane	88	500	<LOQ	Pass



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