



Certificate of Analysis

Dr. Kerklaan Therapeutics

Berkeley, CA 94710

Sample: 1907DBL0233.6703.R2

Ordered: 07/19/2019; Sampled: 07/19/2019; Completed: 07/23/2019; Analyzed: 07/25/2019

Natural CBD Skin Cream (2 oz)

Topical, Salve

Dr. Kerklaan
THERAPEUTICS



Cannabinoids

<LOQ

Δ9-THC + Δ8-THC

124.742
mg/unit

Total Cannabinoids

1 Unit = Natural CBD Skin Cream 120mg CBD, 59g

124.742
mg/unit

CBD

Cannabinoids

CBC
CBCa
CBD
CBDa
CBDV
CBDVa
CBG
CBGa
CBL
CBN
Δ8-THC
Δ9-THC
THCa
THCV
THCVa

Cannabinoid Profile

Analyzed by 300.18 UHPLC/PDA

Cannabinoid	Mass mg/unit	Mass mg/g	LOQ mg/unit
CBC	<LOQ	<LOQ	3.375
CBCa	<LOQ	<LOQ	3.375
CBD	124.742	2.114	3.375
CBDa	<LOQ	<LOQ	3.375
CBDV	<LOQ	<LOQ	3.375
CBDVa	<LOQ	<LOQ	3.375
CBG	<LOQ	<LOQ	3.375
CBGa	<LOQ	<LOQ	3.375
CBL	<LOQ	<LOQ	3.375
CBN	<LOQ	<LOQ	3.375
Δ8-THC	<LOQ	<LOQ	3.375
Δ9-THC	<LOQ	<LOQ	3.375
THCa	<LOQ	<LOQ	3.375
THCV	<LOQ	<LOQ	3.375
THCVa	<LOQ	<LOQ	3.375
Total THC	ND	ND	
Total CBD	124.742	2.114	
Total	124.742	2.114	

Notes: Solution was ran by an ISO 17025:2017 accredited laboratory for heavy metals. For sample 6703: changed sample name from "Natural CBD Skin Cream 120mg CBD" to "Natural CBD Skin Cream (2 oz)".



Stacy Gardalen

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Quality Control

Kelly Zaugg

Kelly Zaugg
Quality Control



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Natural CBD Skin Cream (2 oz)

Topical, Salve

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

Compound	LOQ	Mass	Mass	Relative Concentration
	mg/unit	mg/unit	mg/g	
Caryophyllene Oxide	7.375	31.671	0.537	
trans-Nerolidol	2.581	2.785	0.047	
α-Bisabolol	7.375	<LOQ	<LOQ	
α-Humulene	7.375	<LOQ	<LOQ	
α-Pinene	7.375	<LOQ	<LOQ	
α-Terpinene	7.375	<LOQ	<LOQ	
β-Caryophyllene	7.375	<LOQ	<LOQ	
β-Myrcene	7.375	<LOQ	<LOQ	
β-Pinene	7.375	<LOQ	<LOQ	
Camphene	7.375	<LOQ	<LOQ	
cis-Nerolidol	4.794	<LOQ	<LOQ	
cis-Ocimene	4.794	<LOQ	<LOQ	
δ-3-Carene	7.375	<LOQ	<LOQ	
δ-Limonene	7.375	<LOQ	<LOQ	
Eucalyptol	7.375	<LOQ	<LOQ	
γ-Terpinene	7.375	<LOQ	<LOQ	
Guaiol	7.375	<LOQ	<LOQ	
Isopulegol	7.375	<LOQ	<LOQ	
Linalool	7.375	<LOQ	<LOQ	
p-Cymene	7.375	<LOQ	<LOQ	
Terpinolene	7.375	<LOQ	<LOQ	
trans-Ocimene	2.581	<LOQ	<LOQ	

34.456 mg/unit
Total Terpenes



Wood



Orange

Notes: Solution was ran by an ISO 17025:2017 accredited laboratory for heavy metals. For sample 6703: changed sample name from "Natural CBD Skin Cream 120mg CBD" to "Natural CBD Skin Cream (2 oz)".



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Natural CBD Skin Cream (2 oz)

Topical, Salve

Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis

	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	9	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	9	1000	<LOQ	Pass
Coliforms	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

Foreign Matter

Pass



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TNC = Too Numerous to Count



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Natural CBD Skin Cream (2 oz)

Topical, Salve

Pesticides				Pass
Analyzed by 300.9 LC/MS/MS and GC/MS/MS				
Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	50	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	15000	<LOQ	Pass
Bifenthrin	10	50	<LOQ	Pass
Cyfluthrin	10	4000	<LOQ	Pass
Cypermethrin	10	50	<LOQ	Pass
Daminozide	10	50	<LOQ	Pass
Dimethomorph	10	60000	<LOQ	Pass
Etoxazole	10	7000	<LOQ	Pass
Fenhexamid	10	30000	<LOQ	Pass
Flonicamid	10	7000	<LOQ	Pass
Fludioxonil	10	20	<LOQ	Pass
Imidacloprid	10	50	<LOQ	Pass
Myclobutanil	10	4000	<LOQ	Pass
Paclobutrazol	10	50	<LOQ	Pass
Piperonyl Butoxide	10	10000	<LOQ	Pass
Pyrethrins	10	1000	<LOQ	Pass
Quintozene	10	200	<LOQ	Pass
Spinetoram	10	1700	<LOQ	Pass
Spinosad	10	10000	<LOQ	Pass
Spirotetramat	10	10000	<LOQ	Pass
Thiamethoxam	10	20	<LOQ	Pass
Trifloxystrobin	10	11000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass



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Natural CBD Skin Cream (2 oz)

Topical, Salve

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ PPM	Limit PPM	Mass PPM	Status
Butanes	80	500	<LOQ	Pass
Heptane	80	500	<LOQ	Pass
Propane	80	500	<LOQ	Pass



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Topical, Salve

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	<LOQ	Pass



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Natural CBD Skin Cream (2 oz)

Topical, Salve

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	89	2000	<LOQ	Pass
Cadmium	89	820	<LOQ	Pass
Lead	89	1200	<LOQ	Pass
Mercury	89	400	<LOQ	Pass



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