



# Certificate of Analysis

Dr. Kerklan Therapeutics

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 (800) 983-3556

Sample: 1912DBL0316.1252.R2

Lot #: Finished Product Lot # X9L09C

Strain: NA

Ordered: 12/18/2019; Sampled: 12/18/2019; Completed: 12/27/2019

## Natural CBD Relief Cream (1 oz)

Concentrates & Extracts, Other, Alcohol



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

### Terpenes

Analyzed by 300.13 GC/FID and GC/MS



449.885 mg/unit  
Total Terpenes



Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
Eucalyptol	3.169	265.015	9.138	
Linalool	3.169	107.422	3.704	
δ-Limonene	3.169	29.446	1.015	
p-Cymene	3.169	14.946	0.515	
α-Pinene	3.169	8.517	0.294	
Terpinolene	3.169	8.051	0.278	
β-Caryophyllene	3.169	5.881	0.203	
β-Myrcene	3.169	3.691	0.127	
Isopulegol	3.169	3.691	0.127	
β-Pinene	3.169	3.224	0.111	
α-Bisabolol	3.169	<LOQ	<LOQ	
α-Humulene	3.169	<LOQ	<LOQ	
α-Terpinene	3.169	<LOQ	<LOQ	
Camphene	3.169	<LOQ	<LOQ	
Caryophyllene Oxide	3.169	<LOQ	<LOQ	
cis-Nerolidol	2.060	<LOQ	<LOQ	
cis-Ocimene	2.060	<LOQ	<LOQ	
δ-3-Carene	3.169	<LOQ	<LOQ	
γ-Terpinene	3.169	<LOQ	<LOQ	
Guaiol	3.169	<LOQ	<LOQ	
trans-Nerolidol	1.109	<LOQ	<LOQ	
trans-Ocimene	1.109	<LOQ	<LOQ	

### Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA



<LOQ  
Total THC



81.989 mg/unit  
Total CBD



NT  
Moisture: Not Tested

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
CBC	1.333	<LOQ	<LOQ	
CBCa	1.333	<LOQ	<LOQ	
CBD	1.333	81.989	2.827	
CBDa	1.333	<LOQ	<LOQ	
CBDV	1.333	<LOQ	<LOQ	
CBDVa	1.333	<LOQ	<LOQ	
CBG	1.333	<LOQ	<LOQ	
CBGa	1.333	<LOQ	<LOQ	
CBL	1.333	<LOQ	<LOQ	
CBN	1.333	<LOQ	<LOQ	
Δ8-THC	1.333	<LOQ	<LOQ	
Δ9-THC	1.333	<LOQ	<LOQ	
THCa	1.333	<LOQ	<LOQ	
THCV	1.333	<LOQ	<LOQ	
THCVa	1.333	<LOQ	<LOQ	

1 Unit = Natural CBD Relief Cream (1 oz), 29g  
 Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa \* 0.877 + CBD



*Stacy Gardalen*

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Quality Control

*Glen Marquez*

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## Natural CBD Relief Cream (1 oz)

Concentrates & Extracts, Other, Alcohol

### Pesticides

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

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	200	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	100	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	1000	<LOQ	Pass
Daminozide	10	800	<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
Pacllobutrazol	10	400	<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	10	1000	<LOQ	Pass
Yeast & Mold	100	10000	<LOQ	Pass

  

Qualitative Analysis	Detected or Not Detected	Status
Aspergillus	Not Detected	Pass
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	2.1	Pass

### Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	51	2000	<LOQ	Pass
Cadmium	51	820	<LOQ	Pass
Lead	51	1200	105	Pass
Mercury	51	400	<LOQ	Pass

### Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	70	500	<LOQ	Pass
Heptanes	70	500	<LOQ	Pass
Propane	70	500	<LOQ	Pass



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