



Certificate of Analysis

Dr. Kerklaan Therapeutics

Berkeley, CA 94710

Sample: 1909DBL0205.8606.R2

METRC Sample:
Lot #: X9F07C2

Strain: NA

Ordered: 09/18/2019; Sampled: 09/20/2019; Completed: 12/17/2019; Analyzed: 09/27/2019

Natural CBD Relief Spray (1 oz)

Topical, Lotion, Other



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
1,374.567 mg/unit Total Terpenes				
Eucalyptol	2.589	914.345	31.529	
Linalool	2.589	193.372	6.668	
δ-Limonene	2.589	72.715	2.507	
Guaiol	2.589	64.330	2.218	
p-Cymene	2.589	33.292	1.148	
α-Pinene	2.589	16.605	0.573	
Isopulegol	2.589	14.981	0.517	
β-Caryophyllene	2.589	14.914	0.514	
γ-Terpinene	2.589	14.550	0.502	
β-Myrcene	2.589	8.518	0.294	
δ-3-Carene	2.589	7.192	0.248	
β-Pinene	2.589	6.214	0.214	
α-Terpinene	2.589	4.159	0.143	
α-Humulene	2.589	3.579	0.123	
trans-Ocimene	0.906	2.519	0.087	
cis-Ocimene	1.683	2.187	0.075	
trans-Nerolidol	0.906	1.094	0.038	
α-Bisabolol	2.589	<LOQ	<LOQ	
Camphene	2.589	<LOQ	<LOQ	
Caryophyllene Oxide	2.589	<LOQ	<LOQ	
cis-Nerolidol	1.683	<LOQ	<LOQ	
Terpinolene	2.589	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
1.518 mg/unit Δ9-THC + Δ8-THC				
62.969 mg/unit CBD				
73.389 mg/unit Total Cannabinoids				
CBC	1.469	<LOQ	<LOQ	
CBCa	1.469	<LOQ	<LOQ	
CBD	1.469	62.969	2.171	
CBDa	1.469	<LOQ	<LOQ	
CBDV	1.469	<LOQ	<LOQ	
CBDVa	1.469	<LOQ	<LOQ	
CBG	1.469	8.902	0.307	
CBGa	1.469	<LOQ	<LOQ	
CBL	1.469	<LOQ	<LOQ	
CBN	1.469	<LOQ	<LOQ	
Δ8-THC	1.469	<LOQ	<LOQ	
Δ9-THC	1.469	1.518	0.052	
THCa	1.469	<LOQ	<LOQ	
THCV	1.469	<LOQ	<LOQ	
THCVa	1.469	<LOQ	<LOQ	

Not Tested

pH: NT
Aw: NT

Not Tested
Homogeneity

1 Unit = Natural CBD Relief Spray 60mg CBD, 29g

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



Dr. Kerklaan
THERAPEUTICS



Notes: For sample 8606: changed sample name from "Natural CBD Relief Spray 60mg CBD" to "Natural CBD Relief Spray (1 oz)".



Stacy Gardalen

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Quality Control

Glen Marquez

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Quality Control

DB Labs

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Las Vegas, NV

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The reported result is based on a sample weight with the applicable moisture content for that sample. LOQ = Limit of Quantitation. Pesticide LOQ = Instrument Limit of Quantitation, NA = Not Analyzed. ND = Not Detected. NR = Not Reported. NT = Not Tested. PGR = Plant Growth Regulator. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. This product has been tested by DB Labs, LLC (MME# 61887736101164525768) using valid testing methodologies and a quality system as required by Nevada state law. Edibles are picked up prior to final packaging unless otherwise stated. Values reported relate only to the product tested. The uncertainty of measurement associated with the measurement result reported in this certificate is available from the organization upon request. DB Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of DB Labs.



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Natural CBD Relief Spray (1 oz)

Topical, Lotion, Other

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

Not Tested

Quantitative Analysis	LOQ	Limit	Mass	Status
Qualitative Analysis	Detected or Not Detected			Status

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

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	55	2000	<LOQ	Pass
Cadmium	55	820	<LOQ	Pass
Lead	55	1200	<LOQ	Pass
Mercury	55	400	<LOQ	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	57	500	<LOQ	Pass
Heptanes	57	500	<LOQ	Pass
Propane	57	500	<LOQ	Pass



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