



Certificate of Analysis

Dr. Kerklaan Therapeutics

Berkeley, CA 94710

Sample: 1910DBL0155.9512

METRC Sample:
Lot #: X9J09A1

Strain: NA

Ordered: 10/11/2019; Sampled: 10/11/2019; Completed: 10/25/2019

Natural CBD Relief Stick (1.5 oz)

Topical, Other



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS



621.308 mg/unit
Total Terpenes

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
Eucalyptol	6.010	368.538	8.190	
Linalool	6.010	219.423	4.876	
δ-Limonene	6.010	16.462	0.366	
p-Cymene	6.010	10.692	0.238	
β-Caryophyllene	6.010	6.192	0.138	
α-Bisabolol	6.010	<LOQ	<LOQ	
α-Humulene	6.010	<LOQ	<LOQ	
α-Pinene	6.010	<LOQ	<LOQ	
α-Terpinene	6.010	<LOQ	<LOQ	
β-Myrcene	6.010	<LOQ	<LOQ	
β-Pinene	6.010	<LOQ	<LOQ	
Camphene	6.010	<LOQ	<LOQ	
Caryophyllene Oxide	6.010	<LOQ	<LOQ	
cis-Nerolidol	3.906	<LOQ	<LOQ	
cis-Ocimene	3.906	<LOQ	<LOQ	
δ-3-Carene	6.010	<LOQ	<LOQ	
γ-Terpinene	6.010	<LOQ	<LOQ	
Guaiol	6.010	<LOQ	<LOQ	
Isopulegol	6.010	<LOQ	<LOQ	
Terpinolene	6.010	<LOQ	<LOQ	
trans-Nerolidol	2.103	<LOQ	<LOQ	
trans-Ocimene	2.103	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

<LOQ
Δ9-THC + Δ8-THC

176.217 mg/unit
CBD

Not Tested

pH: NT
Aw: NT

185.545 mg/unit
Total Cannabinoids

Not Tested
Homogeneity

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
CBC	2.259	<LOQ	<LOQ	
CBCa	2.259	<LOQ	<LOQ	
CBD	2.259	176.217	3.916	
CBDa	2.259	<LOQ	<LOQ	
CBDV	2.259	2.457	0.055	
CBDVa	2.259	<LOQ	<LOQ	
CBG	2.259	6.871	0.153	
CBGa	2.259	<LOQ	<LOQ	
CBL	2.259	<LOQ	<LOQ	
CBN	2.259	<LOQ	<LOQ	
Δ8-THC	2.259	<LOQ	<LOQ	
Δ9-THC	2.259	<LOQ	<LOQ	
THCa	2.259	<LOQ	<LOQ	
THCV	2.259	<LOQ	<LOQ	
THCVa	2.259	<LOQ	<LOQ	

1 Unit = Dr. Kerklaan Natural Pain Stick, 180mg, 45g

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



Notes: Full testing added



Stacy Gardalen

Stacy Gardalen
Quality Control

Glen Marquez

Glen Marquez
Quality Control



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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 Stick (1.5 oz)

Topical, 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
Paclobotrazol	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	
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

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	48	2000	<LOQ	Pass
Cadmium	48	820	<LOQ	Pass
Lead	48	1200	<LOQ	Pass
Mercury	48	400	56	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	85	500	<LOQ	Pass
Heptanes	85	500	<LOQ	Pass
Propane	85	500	<LOQ	Pass



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