



# Certificate of Analysis

Dr. Kerklan Therapeutics

300 Valley St. #2101  
Sausalito, CA 94965  
Lawrence Hudson

Sample

1809DBL0182.5135

Batch NA

Lot NA

Ordered 9/28/18

Completed 10/4/18

## Dr. Kerklan Natural Pain Spray

### Cannabinoids

	116.8	0.198	59
Total CBD (mg/unit)		% Total CBD	Unit weight (g)
Cannabinoid	LOQ	Mass %	Mass Concentration mg/g
CBD	0.01	0.20	1.98
CBDA	0.01	<LOQ	<LOQ
d9-THC	0.01	<LOQ	<LOQ
THCA-A	0.01	<LOQ	<LOQ
d8-THC	0.01	<LOQ	<LOQ
THCV	0.01	<LOQ	<LOQ
CBDV	0.01	<LOQ	<LOQ
CBDVA	0.01	<LOQ	<LOQ
CBGA	0.01	0.01	0.08
CBG	0.01	0.01	0.08
CBN	0.01	<LOQ	<LOQ
CBC	0.01	<LOQ	<LOQ
CBL	0.01	<LOQ	<LOQ

### Pesticides/Plant Growth Regulators

Pesticides	Status	Sample (PPB)	LOQ (PPB)
Acequinocyl	PASS	<LOQ	10
Abamectin	PASS	<LOQ	10
Bifenazate	PASS	<LOQ	10
Bifenthrin	PASS	<LOQ	10
Cyfluthrin	PASS	<LOQ	10
Cypermethrin	PASS	<LOQ	10
Daminozide	PASS	<LOQ	10
Dimethomorph	PASS	<LOQ	10
Etoxazole	PASS	<LOQ	10
Fenhexamid	PASS	<LOQ	10
Flonicamid	PASS	<LOQ	10
Imidacloprid	PASS	<LOQ	10
Myclobutanil	PASS	<LOQ	10
Paclobutrazol	PASS	<LOQ	10
Piperonyl Butoxide	PASS	<LOQ	10
Pyrethrins	PASS	<LOQ	10
Quintozene	PASS	<LOQ	10
Spinetoram	PASS	<LOQ	10
Spinosad	PASS	<LOQ	10
Spirotetramat	PASS	<LOQ	10
Thiamethoxam	PASS	<LOQ	10
Trifloxystrobin	PASS	<LOQ	10
Plant Growth Regulators	PASS	<LOQ	10

### Microbiology

Quantitative Analysis	Status	Sample	LOQ	Limit
	Pass/Fail	CFU/g	CFU/g	CFU/g
Mold/Mildew/Yeast	PASS	<LOQ	9	10,000
Enterobacteriaceae	PASS	<LOQ	9	1,000
Aerobic Bacteria	PASS	<LOQ	9	100,000
Coliforms	PASS	<LOQ	9	1,000
Qualitative Analysis	Detected or Not-detected			
E. Coli	PASS	Not-detected		
Salmonella	PASS	Not-detected		
Foreign Matter	PASS	Not-detected		

### Heavy Metals

Compound	Status	Sample	LOQ	Limit
	Pass/Fail	PPB	PPB	PPB
Arsenic	PASS	<LOQ	50	2000
Cadmium	PASS	<LOQ	50	820
Mercury	PASS	<LOQ	50	400
Lead	PASS	<LOQ	50	1200

Dr. Kerklan  
THERAPEUTICS



*Stacy Gardalen*

Stacy Gardalen  
Director

*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. NA = Not Analyzed. ND = Not Detected, 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. Values reported relate only to the product tested. 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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## Dr. Kerklaan Natural Pain Spray

### Residual Solvents

Compound	Status	Limit (PPM)
Propane	PASS	500
Methanol	PASS	500
Isobutane	PASS	500
Ethanol	PASS	500
Isopropanol	PASS	500
Isopentane	PASS	500
n-Butane	PASS	500
n-Hexane	PASS	500
2,2-Dimethylbutane	PASS	500
3-Methylpentane	PASS	500
2-Methylpentane	PASS	500
Cyclohexane	PASS	500
Neopentane	PASS	500
n-Heptane	PASS	500
n-Pentane	PASS	500
Benzene	PASS	500

### Terpenes

Terpenes	LOQ	Mass	Mass
	%	%	mg/g
a-Pinene	0.097	0.08	0.80
Camphene	0.097	<LOQ	<LOQ
beta-Myrcene	0.097	0.02	0.23
beta-Pinene	0.097	0.01	0.13
d3-Carene	0.097	<LOQ	<LOQ
alpha-Terpinene	0.097	<LOQ	<LOQ
trans-Ocimene	0.034	0.03	0.30
D-Limonene	0.097	0.16	1.63
para-Cymene	0.097	0.05	0.51
cis-Ocimene	0.063	0.03	0.26
Eucalyptol	0.097	1.772	17.72
gamma-Terpinene	0.097	0.024	0.24
Terpinolene	0.097	<LOQ	<LOQ
Linalool	0.097	1.004	10.04
Isopulegol	0.097	0.038	0.38
Caryophyllene	0.097	0.027	0.27
Humulene	0.097	<LOQ	<LOQ
trans-Nerolidol	0.034	<LOQ	<LOQ
cis-Nerolidol	0.063	<LOQ	<LOQ
Guaiol	0.097	<LOQ	<LOQ
Caryophyllene Oxide	0.097	<LOQ	<LOQ
a-Bisabolol	0.097	<LOQ	<LOQ

Stacy Gardalen  
Director

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