



Full Spectrum Hemp CBD

Therapeutic Naturals LLC

Montana Certificate of Analysis

Stillwater Laboratories Inc. MMJ Laboratory License L-00001

total cannabinoids	Δ^9 -THC	CBD (decarb)
48.0 mg	1.2 mg	45.9 mg
	per mL	

This Product Has Been Tested and Meets the Quality Assurance Requirements of the State of Montana

tincture



Potency

	%	estimated error
tetrahydrocannabinolic acid (THCa)	0.002%	± 0.02 %
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	0.124%	± 0.05 %
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0.010%	± 0.02 %
tetrahydrocannabivarin (THCv)	0.005%	± 0.02 %
cannabidiolic acid (CBDa)	0.000%	± 0.02 %
cannabidiol (CBD)	4.586%	± 0.27 %
cannabidivarin (CBDv)	0.005%	± 0.02 %
cannabigerolic acid (CBGa)	0.058%	± 0.03 %
cannabigerol (CBG)	0.000%	± 0.02 %
cannabinol (CBN)	0.000%	± 0.02 %
cannabichromene (CBC)	0.007%	± 0.02 %

Sample	order number	2534	
type	tincture		
request date	5/18/2018		
lab ID	8EK30		
sample date	5/18/2018		
batch weight	test date	5/19/2018	
sample weight	4.55g	report due	5/22/2018

Methods	method	equipment	reference material
sampling	AD8EM		
FMI	IN8EM	YSC HD801m12	
weights	MA8EM	AUX120.2	MA8EKS
potency	8E2	LC-2030C	PO8EKS

◇ All testing was completed onsite at 6073 US93N, Olney MT according to the methods and standards listed. Methods may be obtained on request from the Director, Stillwater Laboratories.

◇ All attempts have been made to ensure accuracy and integrity of the results. However, Stillwater Laboratories cannot guarantee results or endorse quality of products beyond the test articles submitted.

◇ Potency (cannabinoid concentration) is calculated from the equation: $[\text{cannabinoid}] = [\text{cannabinoid}]_{\text{HPLC}} \times \text{volume}_{\text{dilution}} / m_{\text{dry}}$.

◇ Standards are run in the same batch as the reported values. These standards are used to recalibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula $s_y^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) $\pm t_{\text{CL90}} \times s_y$. Sampling error is not considered in error calculations.

Certified by:

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Printed 5/23/2018 8:28 AM

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