



STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: Full Spectrum Hemp Oil
BATCH/LOT: A0054
INGREDIENTS: Full Spectrum Hemp Extract, Organic Hemp Seed Oil
ADDITIVES: none
EXCIPIENTS: none

PRODUCTION DATE: 09/30/2019
BEST BY/EXP DATE: 09/2021

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Identity	Organoleptic	Conforming	PASS
Identity	UPLC/UV	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) ⁱ	UPLC/UV	3.7 – 4.7%	3.76%
Total Tetrahydrocannabinol (THC) ⁱⁱ	UPLC/UV	NMT 0.3%	0.25%
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	1,244 ppm
Microbiological^{iv}			
Total Plate Count	USP 42	NMT 1,000 cfu/ml	PASS
Total Yeast & Mold	USP 42	NMT 100 cfu/ml	PASS
<i>E. coli</i>	USP 42	Absent	PASS
<i>Salmonella</i>	USP 42	Absent	PASS
<i>Staph. aureus</i>	USP 42	Absent	PASS
<i>Pseudo. aeruginosa</i>	USP 42	Absent	PASS
Heavy Metals^v			
Arsenic (As)	ICP/MS	NMT 5 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 2 ppm	PASS
Lead (Pb)	ICP/MS	NMT 2 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 1 ppm	PASS
Pesticides			
Multi-residue panel	UPLC-MS/MS	Below MRL ^{vi}	PASS

David Cole
Director of Quality

10/11/19

Date

ⁱ Total CBD = CBD + (0.877*CBDA) to account for loss of acid group during decarboxylation.

ⁱⁱ Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation.

ⁱⁱⁱ Sum of terpene profile (n=27)

^{iv} Microbiological limits based on USP, WHO, and/or NSF/ANSI.

^v Limits for As and Pb set below CA Prop 65 *no significant risk level*; Cd and Hg set below USP permitted daily exposure for 110lb body weight

^{vi} MRL = Method Reporting Limit