Bia Diagnostics Laboratories

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480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

Company: Northeast Kingdom Hemp
2687 Willoughby Lake RD
Barton, VT 05822
Customer ID: 210614-0
Grower License #: N/A

Sample ID: VTK Decarb
Lot: N/A
Matrix: Extract
Date Sampled: N/A
Date Received: 9/13/2022

Report Date: 9/25/2022
Date Analyzed: 9/19/2022
Analyst: LEM
Report ID: C220913AA

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	<LOQ	<LOQ
CBGA	0.0008	6.52	0.65
CBG	0.0019	38.07	3.81
CBD	0.0019	2.66	0.27
THCV	0.0021	5.40	0.54
CBN	0.0013	14.42	1.44
Δ9-THC	0.0020	707.34	70.73
Δ8-THC	0.0019	4.37	0.44
THC-A	0.0034	1.70	0.17
CBC	0.0024	10.60	1.06
Total THC		708.84	70.88
Total CBD		2.66	0.27
Total Cannabinoids		791.10	79.11

70.88% **Total THC**	0.27% **Total CBD**
79.11% **Total Cannabinoids**	70.73% **Δ9-THC**
N/A **Percent Moisture**	1 : 0 **THC : CBD Ratio**

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
Total THC = (THCA x 0.877) + Δ9-THC
Total CBD = (CBDA x 0.877) + CBD
Ratio of Total CBD: Total THC
Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.
Δ9-THC MU = ±0.005%
Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

Certified by: Luke E. M
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)