Bia Diagnostics Laboratories

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Certificate of Analysis

Company: Pinnacle Valley Organics
574 VT Route 12S
Randolph, VT 05060

Customer ID: 221128-2

Grower License #: CLTV0077

Sample ID: PROCESS LOT: SHIRE 2.0

Lot: CLTV0077-06-0028

Matrix: Flower

Date Sampled: N/A

Date Received: 2/14/2023

Report Date: 2/20/2023

Date Analyzed: 2/17/2023

Analyst: 050

Report ID: C230214AZ

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	0.66	0.07
CBGA	0.0008	12.06	1.21
CBG	0.0019	1.12	0.11
CBD	0.0019	<LOQ	<LOQ
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	4.02	0.40
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	215.34	21.53
CBC	0.0024	<LOQ	<LOQ
Total THC		192.87	19.29
Total CBD		0.58	0.06
Total Cannabinoids		233.20	23.32

19.29% **Total THC**	0.06% **Total CBD**
23.32% **Total Cannabinoids**	0.4% **Δ9-THC**
10.00% **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.

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

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