

SAMPLE NAME: Vulcan-MCT

Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR

Business Name: Dynamic Biosciences

License Number:

Address:



SAMPLE DETAIL

Batch Number:

Sample ID: 201027V016

Date Collected: 10/27/2020

Date Received: 10/27/2020

Batch Size:

Sample Size:

Unit Mass: 4 milliliters per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 11.476 mg/unit

Total CBD: 316.680 mg/unit

Sum of Cannabinoids: 356.912 mg/unit

Total Cannabinoids: 346.172 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
 Total THC = $\Delta 9\text{THC} + (\text{THCa} \cdot 0.877)$
 Total CBD = $\text{CBD} + (\text{CBDa} \cdot 0.877)$
 Sum of Cannabinoids = $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$
 Total Cannabinoids = $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Moisture: NT

Density: 0.9533 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

$\Delta 9\text{THC}$ per Unit: ✔ PASS

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

Pesticides: NT

Mycotoxins: NT

Residual Solvents: ✔ PASS

Heavy Metals: NT

Microbial Impurities (PCR): NT

Microbial Impurities (Plating): NT

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)


 LIC verified by: Kevin Flores
 Date: 10/30/2020


 Approved by: Josh Wurzer, President
 Date: 10/30/2020



CANNABINOID TEST RESULTS - 10/30/2020

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 11.476 mg/unit

Total THC ($\Delta 9$ THC+0.877*THCa)

TOTAL CBD: 316.680 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 346.172 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta 8$ THC + CBL + CBN

TOTAL CBG: 4.216 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 10.832 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 1.768 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±2.9154	60.864	6.3846
CBDa	0.001 / 0.003	±0.7619	20.873	2.1896
$\Delta 9$ THC	0.002 / 0.005	±0.1963	2.784	0.2920
CBC	0.003 / 0.010	±0.0936	2.260	0.2371
CBG	0.002 / 0.005	±0.0534	0.858	0.0900
CBCa	0.001 / 0.004	±0.0250	0.511	0.0536
CBDV	0.002 / 0.007	±0.0174	0.333	0.0349
CBGa	0.002 / 0.006	±0.0066	0.224	0.0235
CBN	0.001 / 0.004	±0.0061	0.164	0.0172
CBL	0.003 / 0.008	±0.0064	0.136	0.0143
CBDVa	0.001 / 0.003	±0.0015	0.124	0.0130
THCa	0.001 / 0.002	±0.0022	0.097	0.0102
$\Delta 8$ THC	0.01 / 0.02	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
THCVa	0.002 / 0.005	N/A	ND	ND
SUM OF CANNABINOIDS			89.228 mg/mL	9.3599%

Unit Mass: 4 milliliters per Unit

$\Delta 9$ THC per Unit	1100 per-package limit	11.136 mg/unit	PASS
Total THC per Unit		11.476 mg/unit	
CBD per Unit		243.456 mg/unit	
Total CBD per Unit		316.680 mg/unit	
Sum of Cannabinoids per Unit		356.912 mg/unit	
Total Cannabinoids per Unit		346.172 mg/unit	

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

0.9533 g/mL
Tested 10/30/2020
Method: QSP 7870 - Sample Preparation

VISCOSITY TEST RESULT

Not Tested



 **Residual Solvents Analysis**


CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 10/29/2020  **PASS**

CATEGORY 1 AND 2 RESIDUAL SOLVENTS

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Chloroform	0.1 / 0.2	1	N/A	ND	PASS
Ethylene Oxide	0.1 / 0.4	1	N/A	<LOQ	PASS
Methylene chloride	0.3 / 0.9	1	N/A	ND	PASS
Trichloroethylene	0.1 / 0.3	1	N/A	ND	PASS

CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 10/29/2020  **PASS**

Acetone	20 / 50	5000	N/A	<LOQ	PASS
Acetonitrile	2 / 7	410	N/A	ND	PASS
Butane	10 / 50	5000	N/A	ND	PASS
Ethanol	20 / 50	5000	N/A	ND	PASS
Ethyl acetate	20 / 60	5000	N/A	ND	PASS
Ethyl ether	20 / 50	5000	N/A	ND	PASS
Heptane	20 / 60	5000	N/A	ND	PASS
Hexane	2 / 5	290	N/A	ND	PASS
Isopropyl Alcohol	10 / 40	5000	N/A	ND	PASS
Methanol	50 / 200	3000	N/A	ND	PASS
Pentane	20 / 50	5000	N/A	ND	PASS
Propane	10 / 20	5000	N/A	ND	PASS
Toluene	7 / 21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS

