



Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 05/17/2020

SAMPLE NAME: 3751 Purium CBD+Spray 1oz Unflavored
Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR

Business Name: Organic by Nature
License Number:
Address:



SAMPLE DETAIL

Batch Number: DC045
Sample ID: 200515N005

Date Collected: 05/15/2020
Date Received: 05/15/2020
Batch Size:
Sample Size:
Unit Mass: 27.399 Grams per Unit
Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.630 mg/unit

Total CBD: 1724.466 mg/unit

Total Cannabinoids: 1774.003 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 = $\text{CBD} + (\text{CBDa} \cdot 0.877)$

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: 0.918 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

Pesticides: NT

Mycotoxins: NT

Residual Solvents: NT

Heavy Metals: NT

Microbial Impurities (PCR): NT

Microbial Impurities (Plating): NT

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included in 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)

Reza Naemeh
LQC verified by: Reza Naemeh
Date: 05/17/2020

Josh Wurzer
Approved by: Josh Wurzer, President
Date: 05/17/2020



Cannabinoid Analysis

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

Method: OSP - (1157) Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 0.630 mg/unit

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

TOTAL CBD: 1724.466 mg/unit

Total CBD ($\text{CBD} + 0.877 * \text{CBDa}$)

TOTAL CANNABINOIDS: 1774.003 mg/unit

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

TOTAL CBG: 20.741 mg/unit

Total CBG ($\text{CBG} + 0.877 * \text{CBGa}$)

TOTAL THCV: ND

Total THCV ($\text{THCV} + 0.877 * \text{THCVa}$)

TOTAL CBC: 7.562 mg/unit

Total CBC ($\text{CBC} + 0.877 * \text{CBCa}$)

TOTAL CBDV: 5.781 mg/unit

Total CBDV ($\text{CBDV} + 0.877 * \text{CBDVa}$)

CANNABINOID TEST RESULTS - 05/17/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	± 3.0138	62.919	6.2919
CBG	0.002 / 0.005	± 0.0471	0.757	0.0757
CBN	0.001 / 0.004	± 0.0200	0.541	0.0541
CBC	0.003 / 0.010	± 0.0114	0.276	0.0276
CBDV	0.002 / 0.007	± 0.0111	0.211	0.0211
$\Delta 9\text{THC}$	0.002 / 0.005	± 0.0016	0.023	0.0023
CBDa	0.001 / 0.003	± 0.0008	0.023	0.0023
$\Delta 8\text{THC}$	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.002	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
THCVa	0.002 / 0.005	N/A	ND	ND
CBDVa	0.001 / 0.003	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBL	0.003 / 0.008	N/A	ND	ND
CBCa	0.001 / 0.004	N/A	ND	ND
SUM OF CANNABINOIDS			64.750 mg/g	6.475%

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

0.918 g/mL

Tested 05/17/2020

Method: OSP - (1152) Sample Preparation

VISCOSITY TEST RESULT

Not Tested

Unit Mass: 27.399 Grams per Unit / Serving Size:

$\Delta 9\text{THC}$ per Unit	1000.0 per-package limit	0.630 mg/unit	PASS
$\Delta 9\text{THC}$ per Serving			
CBD per Unit		1723.918 mg/unit	
CBD per Serving			





Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 05/17/2020

SAMPLE NAME: 3750 Purium CBD+Spray 1oz Peppermint
Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR

Business Name: Organic by Nature
License Number:
Address:

SAMPLE DETAIL

Batch Number: DC069
Sample ID: 200515N004

Date Collected: 05/15/2020
Date Received: 05/15/2020
Batch Size:
Sample Size:
Unit Mass: 27.45 Grams per Unit
Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.494 mg/unit

Total CBD: 1712.770 mg/unit

Total Cannabinoids: 1751.474 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 = $\text{CBD} + (\text{CBDa} \cdot 0.877)$
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: 0.9138 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

Pesticides: NT

Mycotoxins: NT

Residual Solvents: NT

Heavy Metals: NT

Microbial Impurities (PCR): NT

Microbial Impurities (Plating): NT

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

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

Handwritten signatures
LQC verified by: Reza Naemeh
Date: 05/17/2020
Approved by: Josh Wurzer, President
Date: 05/17/2020



Cannabinoid Analysis

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

Method: OSP - (1157) Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 0.494 mg/unit

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

TOTAL CBD: 1712.770 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 1751.474 mg/unit

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

CANNABINOID TEST RESULTS - 05/17/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	± 2.9878	62.376	6.2376
CBN	0.001 / 0.004	± 0.0201	0.544	0.0544
CBG	0.002 / 0.005	± 0.0287	0.462	0.0462
CBDV	0.002 / 0.007	± 0.0106	0.203	0.0203
CBC	0.003 / 0.010	± 0.0076	0.183	0.0183
CBDA	0.001 / 0.003	± 0.0008	0.023	0.0023
$\Delta 9$ THC	0.002 / 0.005	± 0.0013	0.018	0.0018
$\Delta 8$ THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.002	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
THCVa	0.002 / 0.005	N/A	ND	ND
CBDVa	0.001 / 0.003	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBL	0.003 / 0.008	N/A	ND	ND
CBCa	0.001 / 0.004	N/A	ND	ND
SUM OF CANNABINOIDS			63.809 mg/g	6.3809%

TOTAL CBG: 12.682 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 5.023 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 5.572 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

0.9138 g/mL
Tested 05/17/2020
Method: OSP - (1152) Sample Preparation

VISCOSITY TEST RESULT

Not Tested

Unit Mass: 27.45 Grams per Unit / Serving Size:

$\Delta 9$ THC per Unit	1000.0 per-package limit	0.494 mg/unit	PASS
$\Delta 9$ THC per Serving			
CBD per Unit		1712.221 mg/unit	
CBD per Serving			

