

CUSTOMER INFORMATION

Customer: Shenandoah Valley Hemp
Sample Received On: 07/16/2024
Date COA Released: 02/24/2025

SAMPLE INFORMATION

Sample Name: CBD Oil
Sample Description: Tincture
Sample ID: SAMPLE- 19704
Batch ID: 0781630020075555



CANNABINOID POTENCY		Date Tested: 07/16/2024 Operator: Dan Blader
ANALYTE	Concentration (mg/g)	Concentration (%)
CBD	48.58	4.858
CBDA	0.57	0.057
delta9 THC	1.52	0.152
delta9 THCA	ND	ND
CBG	1.91	0.191
CBGA	ND	ND
CBC	1.58	0.158
CBCA	ND	ND
CBDV	ND	ND
CBDVA	ND	ND
THCV	0.27	0.027
THCVA	ND	ND
CBN	ND	ND
delta8 THC	ND	ND
Total CBD	49.08	4.908
Total THC	1.52	0.152

The sample was analyzed for cannabinoids following *SOP-VA-1149 Cannabinoid Potency*.

Total CBD = CBDA * 0.877 + CBD

Total delta-9 THC = THCA * 0.877 + delta-9 THC

Results are reported on a dry-weight basis:

Concentration = Concentration of Wet Samples / (1 - Moisture Concentration)

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TERPENE PROFILE		Date Tested: 07/16/2024 Operator: Rebecca Hobden
ANALYTE	Concentration (mg/g)	Concentration (%)
α-Pinene	ND	ND
Camphene	ND	ND
β-Pinene	ND	ND
Myrcene	ND	ND
α-Terpinene	ND	ND
Limonene	ND	ND
Ocimene	ND	ND
γ-Terpinene	ND	ND
Terpinolene	ND	ND
Linalool	ND	ND
α-Humulene	ND	ND
β-Caryophyllene	0.41	0.04
Δ3-Carene	ND	ND
Cineole/Eucalyptol	ND	ND
Isopulegol	ND	ND
α-Bisabolol	ND	ND
p-Cymene	ND	ND

The sample was analyzed for terpenes using gas chromatography with mass spectrometric detection (GC-MS) following *SOP-VA-1539*.

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PESTICIDES		Date Tested: 07/17/2024 Operator: Shawn Manns
ANALYTE	RESULTS (PPM)	
Abamectin	ND	
Acephate	ND	
Acetamiprid	ND	
Acequinocyl	ND	
Azoxystrobin	ND	
Aldicarb	ND	
Bifenazate	ND	
Bifenthrin	ND	
Boscalid	ND	
Carbaryl	ND	
Carbofuran	ND	
Chlorantraniliprole	ND	
Chlorfenapyr	ND	
Chlorpyrifos	ND	
Clofentezine	ND	
Cyfluthrin	ND	
Cypermethrin	ND	
Daminozide	ND	
Diazinon	ND	
Dichlorvos	ND	
Dimethoate	ND	
Ethoprophos	ND	
Etofenprox	ND	
Etoxazole	ND	
Fenpyroximate	ND	
Fenoxycarb	ND	
Fipronil	ND	
Flonicamid	ND	
Fludioxonil	ND	
Hexythiazox	ND	
Imazalil	ND	

PESTICIDES		Date Tested: 07/17/2024 Operator: Shawn Manns
ANALYTE	RESULTS (PPM)	
Imidacloprid	ND	
Kresoxim-methyl	ND	
Malathion	ND	
Metalaxyl	ND	
Methyl Parathion	ND	
Methomyl	ND	
Methiocarb	ND	
MGK-264	ND	
Myclobutanil	ND	
Naled	ND	
Oxamyl	ND	
Paclobutrazol	ND	
Prallethrin	ND	
Permethrin	ND	
Phosmet	ND	
Piperonyl butoxide	ND	
Propiconazole	ND	
Propoxur	ND	
Pyrethrin	ND	
Pyridaben	ND	
Spinosad	ND	
Spiromesifen	ND	
Spirotetramat	ND	
Spiroxamine	ND	
Thiacloprid	ND	
Thiamethoxam	ND	
Tebuconazole	ND	
Trifloxystrobin	ND	

The sample was analyzed for pesticides using liquid chromatography with mass spectrometric detection (LC-MS/MS) following SOP-VA-1581.

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HEAVY METALS		Date Tested: 07/18/2024 Operator: Rebecca Hobden
ANALYTE	RESULTS (PPM)	
Arsenic	<LOQ	
Cadmium	ND	
Lead	ND	
Mercury	ND	

The sample was analyzed for heavy metals in inductively coupled plasma with mass spectrometry (ICP-MS) following SOP-VA-1165.

MYCOTOXINS		Date Tested: 07/17/2024 Operator: Shawn Manns
ANALYTE	RESULTS (PPB)	
Ochratoxin A	ND	
Aflatoxin B1	ND	
Aflatoxin B2	ND	
Aflatoxin G1	ND	
Aflatoxin G2	ND	

The sample was analyzed for mycotoxins using liquid chromatography with mass spectrometric detection (LC-MS/MS) following SOP-VA-1581.

RESIDUAL SOLVENTS			Date Tested: 07/16/2024 Operator: Shawn Manns
ANALYTE	RESULTS (PPM)	RESULTS (%)	
Acetone	ND	0.00	
Acetonitrile	ND	0.00	
Benzene	ND	0.00	
Chloroform	ND	0.00	
Cyclohexane	ND	0.00	
1,2-Dichloroethane	ND	0.00	
Diethyl Ether	ND	0.00	
Ethanol	ND	0.00	
Ethyl acetate	ND	0.00	
Methanol	ND	0.00	
Methylene chloride	ND	0.00	
n-Heptane	ND	0.00	
n-Hexane	ND	0.00	
n-Pentane	ND	0.00	
2-Propanol (isopropanol)	ND	0.00	
Toluene	ND	0.00	
Total Xylene	ND	0.00	
Trichloroethylene	ND	0.00	

The sample was analyzed for residual solvents using gas chromatography with mass spectrometric detection (GC-MS) following SOP-VA-1301.

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MICROBIOLOGICAL IMPURITY		Date Tested: 07/18/2024 Operator: Shawn Manns
Microbe	CFU/g	
Total Aerobic Microbial Count(TAMC)	ND	
Total Yeast and Mold Count(TYMC)	ND	
Microbe	CFU/g	
E. coli	Absent	
Salmonella	Absent	

The sample was analyzed for microbial contamination using either qPCR or Petrifilm that follow *SOP-701, 702, 703-GA* or *SOP-VA-1382*. Results are reported in CFU/gram.

ND = Not Detected, LOD = Limit of Detection, LOQ = Limit of Quantification, MRL=Minimum Reporting Limit
 PPM = Parts per Million = mg/kg, PPB = Parts per Billion = ug/kg, CFU/g = Colony Forming Units per gram

Results below the LOQ are reported as ND.

Action limits are set according to Commonwealth of Virginia: 3VAC10-60-20.

Where statements of conformity are reported ('pass' vs 'fail'), the simple acceptance decision rule is applied. The measurement uncertainty associated with each test method may impact the certainty with which a statement of conformity is made. This is a simplified report; however, measurement uncertainty, limit of detection and quantification values, and minimum reporting limits are available upon request.

Testing results are based solely on the sample submitted to Green Analytics Virginia in the condition it was received. This product has been tested by Green Analytics Virginia using valid testing methodologies. Values reported relate only to the product tested. Values reported may be an average of multiple test results. Green Analytics Virginia makes no claims as to the efficacy, safety, or other risks with any detected or non-detected levels of any compound reported herein. This Certificate of Analysis shall not be reproduced except in full without the express written consent of Green Analytics Virginia.

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