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Green Analytics VA
10338 Stony Run Lane
Ashland, VA, 23005
540-682-3765
www.greenanalyticslabs.com
info_va@greenanalyticslabs.com

Certificate of Analysis

Tested

Customer Name:	Shenandoah Valley Hemp	**Sample Name:**	Calm 1500
Sample Received On:	12/22/2025	**Sample Description:**	Tincture
Date COA Released:	12/29/2025	**Sample ID:**	29596
		Batch ID:	0781630020072932

Cannabinoid Potency

Date Tested: 12/22/2025
Operator: Dan Blader

Analyte	Concentration (mg/g)	Concentration (%)
CBD	46.69	4.669
CBC	0.98	0.098
Δ9-THC	0.95	0.095
CBG	0.54	0.054
CBDV	0.38	0.038
CBCA	ND	ND
CBDA	ND	ND
CBDVA	ND	ND
CBGA	ND	ND
CBN	ND	ND
Δ8-THC	ND	ND
Δ9-THCA	ND	ND
THCV	ND	ND
THCVA	ND	ND
Total CBD	46.69	4.669
Total THC	0.95	0.095
Total Cannabinoids	49.53	4.953

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)

Test ID: #23891

Terpene Profile

Date Tested: 12/22/2025
Operator: Haley Egeland

Analyte	Concentration (mg/g)	Concentration (%)	Analyte	Concentration (mg/g)	Concentration (%)
Linalool	3.94	0.394	p-Cymene	ND	ND
Δ3-Carene	ND	ND	Limonene	ND	ND
α-Bisabolol	ND	ND	Cineole/Eucalyptol	ND	ND
α-Humulene	ND	ND	γ-Terpinene	ND	ND
α-Pinene	ND	ND	Isopulegol	ND	ND
α-Terpinene	ND	ND	Myrcene	ND	ND
β-Caryophyllene	ND	ND	Ocimene	ND	ND
β-Pinene	ND	ND	Terpinolene	ND	ND
Camphene	ND	ND	Total Terpenes	3.94	0.394

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

Test ID: #23894

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Pesticides

Date Tested: 12/24/2025
Operator: Rebecca Hobden

Analyte	Result (ppm)	Analyte	Result (ppm)
Abamectin	ND	Imazalil	ND
Acephate	ND	Imidacloprid	ND
Acequinocyl	ND	Kresoxim-methyl	ND
Acetamiprid	ND	Malathion	ND
Aldicarb	ND	Metalaxyl	ND
Azoxystrobin	ND	Methiocarb	ND
Bifenazate	ND	Methomyl	ND
Bifenthrin	ND	Methyl Parathion	ND
Boscalid	ND	MGK-264	ND
Carbaryl	ND	Myclobutanil	ND
Carbofuran	ND	Naled	ND
Chlorantraniliprole	ND	Oxamyl	ND
Chlorfenapyr	ND	Paclobutrazol	ND
Chlorpyrifos	ND	Permethrins	ND
Clofentezine	ND	Phosmet	ND
Cyfluthrin	ND	Piperonyl butoxide	ND
Cypermethrin	ND	Prallathrin	ND
Daminozide	ND	Propiconazole	ND
Diazinon	ND	Propoxur	ND
Dichlorvos	ND	Pyrethrins	ND
Dimethoate	ND	Pyridaben	ND
Ethoprophos	ND	Spinosad	ND
Etofenprox	ND	Spiromesifen	ND
Etoxazole	ND	Spirotetramat	ND
Fenoxycarb	ND	Spiroxamine	ND
Fenpyroximate	ND	Tebuconazole	ND
Fipronil	ND	Thiacloprid	ND
Flonicamid	ND	Thiamethoxam	ND
Fludioxonil	ND	Trifloxystrobin	ND
Hexythiazox	ND		

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

Test ID: #23895

Heavy Metals

Date Tested: 12/23/2025
Operator: Dan Blader

Analyte	Results (ppm)
Arsenic	ND
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.*

Test ID: #23893

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Tested

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Mycotoxins
Date Tested: 12/24/2025
Operator: Rebecca Hobden

Analyte	Results (ppb)
Ochratoxin A	ND
Total Aflatoxins	ND

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

Test ID: #23897

Microbiological Impurity
Date Tested: 12/24/2025
Operator: Sarah Earles

Microbe	Result
Total Aerobic Microbial Count	ND
Total Yeast and Mold Count	ND

Microbe	Result
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.

Test IDs: #23896

Residual Solvents
Date Tested: 12/23/2025
Operator: Haley Egeland

Analyte	Results (ppm)
2-Propanol (isopropanol)	ND
Butane	ND
Ethanol	ND
Ethyl Acetate	ND
Ethyl Ether	ND
n-Heptane	ND
n-Hexane	ND
n-Pentane	ND
Propane	ND

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

Test ID: #23892

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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.

Prepared by:

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12/29/2025

Approved by:

Rebecca Hobden
Lab Director
12/29/2025