



# Steep Hill Arkansas

11711 HERMITAGE ROAD, SUITE #5, LITTLE ROCK, AR 72211 LICENSE #: BL157155

## CERTIFICATE OF ANALYSIS

Sample Name: Natural Solutions 1000mg Natural  
 Steep Hill ID: AR99122  
 Batch ID:  
 State ID:  
 Sample Type: Tincture  
 Date Received: 3/9/2021  
 Date Reported: 3/16/2021  
 Pkg. Volume: 30 mL  
 # of Servings: 30  
 Density: 1.01 g/mL

Customer: **Natvana**  
**295 Porter Ln**  
**Roe, AR 72134**

### OVERALL BATCH SUMMARY: **PASS**

Cannabinoids	Residual Pesticides	Microbial Impurities	Heavy Metals	Residual Solvents	Moisture	Water Activity
Tested	NT	NT	NT	NT	NT	NT



**Total THC**  
 0.141 %  
 1.41 mg/g  
 42.7 mg/pkg  
 1.42 mg/serv

**Total CBD**  
 3.64 %  
 36.4 mg/g  
 1101 mg/pkg  
 36.7 mg/serv

**Total Cannabinoids**  
 3.78 %  
 37.8 mg/g  
 1143 mg/pkg  
 38.1 mg/serv

Brandon Thornton  
 Pharm D. Co-Owner & CEO  
 Date: 3/16/2021

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## CERTIFICATE OF ANALYSIS

### Cannabinoid Results

3/11/2021

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; SOP-068-AR)

Analyte	%	mg/g	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT	NT
CBD	3.64	36.4	1101	36.7	0.103	0.310
CBDA	ND	ND	ND	ND	0.0313	0.0986
CBDV	NT	NT	NT	NT	NT	NT
CBG	NT	NT	NT	NT	NT	NT
CBGA	NT	NT	NT	NT	NT	NT
CBN	NT	NT	NT	NT	NT	NT
THC	0.141	1.41	42.7	1.42	0.111	0.332
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0673	0.209
THCV	NT	NT	NT	NT	NT	NT
Total	3.78	37.8	1143	38.1		

### Terpenoid Results

3/16/2021

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-AR)  
This method is not included in our ISO accreditation scope.

Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g
$\alpha$ -Bisabolol	NT	NT	NT	NT	NT	Linalool	0.0605	0.605	0.610	0.0277	0.0923
endo-Borneol	NT	NT	NT	NT	NT	Menthol	NT	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	NT	$\beta$ -Myrcene	0.0444	0.444	0.448	0.0126	0.0419
Camphor	NT	NT	NT	NT	NT	Nerol	NT	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	NT	cis-Nerolidol	NT	NT	NT	NT	NT
Caryophyllene Oxide	ND	ND	ND	0.0463	0.154	trans-Nerolidol	NT	NT	NT	NT	NT
$\beta$ -Caryophyllene	0.0489	0.489	0.493	0.0245	0.0815	cis- $\beta$ -Ocimene	NT	NT	NT	NT	NT
$\alpha$ -Cedrene	NT	NT	NT	NT	NT	trans- $\beta$ -Ocimene	NT	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	NT	$\alpha$ -Phellandrene	NT	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	NT	$\alpha$ -Pinene	0.0588	0.588	0.593	0.0141	0.0471
$\beta$ -Farnesene	NT	NT	NT	NT	NT	$\beta$ -Pinene	ND	ND	ND	0.0134	0.0446
Fenchol	NT	NT	NT	NT	NT	Pulegone	NT	NT	NT	NT	NT
Fenchone	NT	NT	NT	NT	NT	Sabinene	NT	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	NT	Sabinene Hydrate	NT	NT	NT	NT	NT
Geranyl Acetate	NT	NT	NT	NT	NT	$\alpha$ -Terpinene	NT	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	NT	$\gamma$ -Terpinene	NT	NT	NT	NT	NT
$\alpha$ -Humulene	< LOQ	< LOQ	< LOQ	0.0170	0.0566	Terpineol	NT	NT	NT	NT	NT
Isoborneol	NT	NT	NT	NT	NT	Terpinolene	ND	ND	ND	0.0374	0.125
Isopulegol	NT	NT	NT	NT	NT	Valencene	NT	NT	NT	NT	NT
Limonene	0.0779	0.779	0.785	0.0101	0.0337	Total	0.291	2.91	2.93		

LOD: Limit of Detection  
 LOQ: Limit of Quantitation  
 NT: Not Tested  
 ND: Not Detected

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## CERTIFICATE OF ANALYSIS

### Residual Pesticides Results

NT

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS); SOP-070-AR + SOP-073-AR) - **Limit units: ug/g = ppm**

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	NT	NT	NT	NT	NT	Imazailil	NT	NT	NT	NT	NT
Acephate	NT	NT	NT	NT	NT	Imidacloprid	NT	NT	NT	NT	NT
Acequinocyl	NT	NT	NT	NT	NT	Kresoxim-methyl	NT	NT	NT	NT	NT
Acetamiprid	NT	NT	NT	NT	NT	Malathion	NT	NT	NT	NT	NT
Aldicarb	NT	NT	NT	NT	NT	Metalaxyl	NT	NT	NT	NT	NT
Azoxystrobin	NT	NT	NT	NT	NT	Methiocarb	NT	NT	NT	NT	NT
Bifenazate	NT	NT	NT	NT	NT	Methomyl	NT	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT	NT	Methyl Parathion	NT	NT	NT	NT	NT
Boscalid	NT	NT	NT	NT	NT	MGK-264	NT	NT	NT	NT	NT
Carbaryl	NT	NT	NT	NT	NT	Myclobutanil	NT	NT	NT	NT	NT
Carbofuran	NT	NT	NT	NT	NT	Naled	NT	NT	NT	NT	NT
Chlorantraniliprole	NT	NT	NT	NT	NT	Oxamyl	NT	NT	NT	NT	NT
Chlorfenapyr	NT	NT	NT	NT	NT	Paclobutrazol	NT	NT	NT	NT	NT
Chlorpyrifos	NT	NT	NT	NT	NT	Permethrins	NT	NT	NT	NT	NT
Clofentezine	NT	NT	NT	NT	NT	Phosmet	NT	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT	NT	Piperonyl Butoxide	NT	NT	NT	NT	NT
Cypermethrin	NT	NT	NT	NT	NT	Prallethrin	NT	NT	NT	NT	NT
Daminozide	NT	NT	NT	NT	NT	Propiconazole	NT	NT	NT	NT	NT
Diazinon	NT	NT	NT	NT	NT	Propoxur	NT	NT	NT	NT	NT
DDVP (Dichlorvos)	NT	NT	NT	NT	NT	Pyrethrins	NT	NT	NT	NT	NT
Dimethoate	NT	NT	NT	NT	NT	Pyridaben	NT	NT	NT	NT	NT
Ethoprophos	NT	NT	NT	NT	NT	Spinosad	NT	NT	NT	NT	NT
Etofenprox	NT	NT	NT	NT	NT	Spiromesifen	NT	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT	NT	Spirotetramat	NT	NT	NT	NT	NT
Fenoxycarb	NT	NT	NT	NT	NT	Spiroxamine	NT	NT	NT	NT	NT
Fenpyroximate	NT	NT	NT	NT	NT	Tebuconazole	NT	NT	NT	NT	NT
Fipronil	NT	NT	NT	NT	NT	Thiacloprid	NT	NT	NT	NT	NT
Fonicamid	NT	NT	NT	NT	NT	Thiamethoxam	NT	NT	NT	NT	NT
Fludioxonil	NT	NT	NT	NT	NT	Trifloxystrobin	NT	NT	NT	NT	NT
Hexythiazox	NT	NT	NT	NT	NT						

### Heavy Metals Results

NT

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-AR) - **Limit units: µg/kg**

Analyte	Pass/Fail	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Arsenic	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT
Mercury	NT	NT	NT	NT	NT

### Microbial Impurities Results

NT

Microbiological screening utilizing 3M Petrifilm (SOP-700-AR) - **Limit units: CFU/g**

Analyte	Pass/Fail	Result	Limit	LOQ
Coliform	NT	NT	NT	NT
General E. coli	NT	NT	NT	NT
Salmonella	NT	NT	NT	NT

### Moisture Results

NT

Moisture content analysis utilizing Moisture Balance (MB; SOP-055-AR)

Analyte	Pass/Fail	%	Limit
Moisture	NT	NT	

### Water Activity Results

NT

Water activity analysis utilizing Water Activity Meter (WAM; SOP-059-AR) - **Limit units: Aw**

Analyte	Pass/Fail	Aw	Limit
Water Activity	NT	NT	

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## CERTIFICATE OF ANALYSIS

### Residual Solvents Results

NT

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-AR) - Limit units: µg/g

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
1-Butanol	NT	NT	NT	NT	NT	Dimethyl Sulfoxide	NT	NT	NT	NT	NT
1-Pentanol	NT	NT	NT	NT	NT	Ethanol	NT	NT	NT	NT	NT
1-Propanol	NT	NT	NT	NT	NT	Ethyl Acetate	NT	NT	NT	NT	NT
1,2-Dimethoxyethane	NT	NT	NT	NT	NT	Ethyl Ether	NT	NT	NT	NT	NT
1,4-Dioxane	NT	NT	NT	NT	NT	Ethylene Glycol	NT	NT	NT	NT	NT
2-Butanol	NT	NT	NT	NT	NT	Ethylene Oxide	NT	NT	NT	NT	NT
2-Butanone	NT	NT	NT	NT	NT	n-Heptane	NT	NT	NT	NT	NT
2-Ethoxyethanol	NT	NT	NT	NT	NT	n-Hexane	NT	NT	NT	NT	NT
2-Methylbutane	NT	NT	NT	NT	NT	Isopropyl Acetate	NT	NT	NT	NT	NT
2-Methylpentane	NT	NT	NT	NT	NT	Methanol	NT	NT	NT	NT	NT
2-Propanol (IPA)	NT	NT	NT	NT	NT	Methylpropane	NT	NT	NT	NT	NT
2,2-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylacetamide	NT	NT	NT	NT	NT
2,3-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylformamide	NT	NT	NT	NT	NT
3-Methylpentane	NT	NT	NT	NT	NT	n-Pentane	NT	NT	NT	NT	NT
Acetone	NT	NT	NT	NT	NT	Propane	NT	NT	NT	NT	NT
Acetonitrile	NT	NT	NT	NT	NT	Pyridine	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT	Sulfolane	NT	NT	NT	NT	NT
n-Butane	NT	NT	NT	NT	NT	Tetrahydrofuran	NT	NT	NT	NT	NT
Cumene	NT	NT	NT	NT	NT	Toluene	NT	NT	NT	NT	NT
Cyclohexane	NT	NT	NT	NT	NT	Xylenes	NT	NT	NT	NT	NT
Dichloromethane	NT	NT	NT	NT	NT						

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