

Hemp Quality Assurance Testing **CERTIFICATE OF ANALYSIS**

DATE ISSUED 05/20/2021

SAMPLE NAME: Nano Tincture

Infused, Liquid Edible

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

DISTRIBUTOR / TESTED FOR

Business Name: Pocono Organics License Number: Address:

SAMPLE DETAIL

Batch Number: 11202105 Sample ID: 210514S021

Date Collected: 05/14/2021 Date Received: 05/14/2021 Batch Size: Sample Size: 30.0 units Unit Mass: 30 milliliters per Unit Serving Size: 1 milliliters per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 11.970 mg/unit Total CBD: 329.880 mg/unit Sum of Cannabinoids: 400.110 mg/unit Total Cannabinoids: 400.110 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 = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + ∆8THC + CBL + CBN

Density: 1.2211 g/mL

TERPENOID ANALYSIS - SUMMARY 39 TESTED, TOP 3 HIGHLIGHTED Total Terpenoids: 0.0369%

 α Bisabolol 0.274 mg/g

Guaiol 0.055 mg/g

 β Caryophyllene 0.040 mg/g

SAFETY ANALYSIS - SUMMARY

∆9THC per Unit: ⊘PASS

Heavy Metals: **PASS**

Pesticides: **PASS**

Microbiology (PCR): PASS

Mycotoxins: OPASS

Microbiology (Plating): ND

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), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

/: Josh Wurzer, President te: 05/20/2021

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

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

TOTAL THC: 11.970 mg/unit

Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 329.880 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 400.110 mg/unit

 $\begin{array}{l} \mbox{Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + \Delta \mbox{8THC} + CBL + CBN \end{array}$

TOTAL CBG: 13.290 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 34.230 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 10.020 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 05/16/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±0.5267	10.996	0.9005
CBC	0.003/0.010	±0.0472	1.141	0.0934
CBG	0.002/0.006	±0.0276	0.443	0.0363
Δ9THC	0.002/0.014	±0.0281	0.399	0.0327
CBDV	0.002/0.012	±0.0175	0.334	0.0274
CBL	0.003/0.010	±0.0011	0.024	0.0020
CBDa	0.001/0.026	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBN	0.001/0.007	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Δ8THC	0.01/0.02	N/A	ND	ND
THCV	0.002/0.012	N/A	ND	ND
THCVa	0.002/0.019	N/A	ND	ND
CBDVa	0.001/0.018	N/A	ND	ND
CBGa	0.002/0.007	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
SUM OF CANNA	BINOIDS		13.337 mg/mL	1.0922%

Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

		44.070 / 1	
Δ9THC per Unit	112 per-package limit	11.970 mg/unit	PASS
Δ9THC per Serving		0.399 mg/serving	
Total THC per Unit		11.970 mg/unit	
Total THC per Serving		0.399 mg/serving	
CBD per Unit		329.880 mg/unit	
CBD per Serving		10.996 mg/serving	
Total CBD per Unit		329.880 mg/unit	
Total CBD per Serving		10.996 mg/serving	
Sum of Cannabinoids per Unit		400.110 mg/unit	
Sum of Cannabinoids per Serving		13.337 mg/serving	
Total Cannabinoids per Unit		400.110 mg/unit	
Total Cannabinoids per Serving		13.337 mg/serving	

DENSITY TEST RESULT

1.2211 g/mL

Tested 05/16/2021

Method: QSP 7870 - Sample Preparation



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🔊 Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

α Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

2 Guaiol

A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.

β Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.



TERPENOID TEST RESULTS - 05/18/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α Bisabolol	0.008/0.026	±0.0146	0.274	0.0274
Guaiol	0.009/0.030	±0.0026	0.055	0.0055
β Caryophyllene	0.004/0.012	±0.0014	0.040	0.0040
α Humulene	0.009/0.029	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Caryophyllene Oxide	0.010/0.033	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α Pinene	0.005/0.017	N/A	ND	ND
Camphene	0.005/0.015	N/A	ND	ND
Sabinene	0.004/0.014	N/A	ND	ND
βPinene	0.004/0.014	N/A	ND	ND
Myrcene	0.008/0.025	N/A	ND	ND
α Phellandrene	0.006 / 0.020	N/A	ND	ND
3 Carene	0.005/0.018	N/A	ND	ND
α Terpinene	0.005/0.017	N/A	ND	ND
p-Cymene	0.005/0.016	N/A	ND	ND
Limonene	0.005/0.016	N/A	ND	ND
Eucalyptol	0.006/0.018	N/A	ND	ND
Ocimene	0.011/0.038	N/A	ND	ND
γTerpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009/0.028	N/A	ND	ND
Terpinolene	0.008/0.026	N/A	ND	ND
Linalool	0.009/0.032	N/A	ND	ND
Fenchol	0.010/0.034	N/A	ND	ND
(-)-Isopulegol	0.005/0.016	N/A	ND	ND
Camphor	0.006/0.019	N/A	ND	ND
Isoborneol	0.004/0.012	N/A	ND	ND
Borneol	0.005/0.016	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Terpineol	0.016/0.055	N/A	ND	ND
Nerol	0.003/0.011	N/A	ND	ND
Citronellol	0.003/0.010	N/A	ND	ND
R-(+)-Pulegone	0.003/0.011	N/A	ND	ND
Geraniol	0.002/0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α Cedrene	0.005 / 0.016	N/A	ND	ND
trans-β-Farnesene	0.008 / 0.025	N/A	ND	ND
Valencene	0.009/0.030	N/A	ND	ND
Nerolidol	0.009/0.028	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.369 mg/g	0.0369%

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Pesticide Analysis

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

CATEGORY 1 PESTICIDE TEST RESULTS - 05/18/2021 OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03/0.08	≥LOD	N/A	ND	PASS
Carbofuran	0.02/0.05	≥LOD	N/A	ND	PASS
Chlordane*	0.03/0.08	≥LOD	N/A	ND	PASS
Chlorfenapyr*	0.03/0.10	≥LOD	N/A	ND	PASS
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND	PASS
Coumaphos	0.02/0.07	≥LOD	N/A	ND	PASS
Daminozide	0.02/0.07	≥LOD	N/A	ND	PASS
DDVP (Dichlorvos)	0.03/0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03/0.08	≥LOD	N/A	ND	PASS
Ethoprop(hos)	0.03/0.10	≥LOD	N/A	ND	PASS
Etofenprox	0.02/0.06	≥LOD	N/A	ND	PASS
Fenoxycarb	0.03/0.08	≥LOD	N/A	ND	PASS
Fipronil	0.03/0.08	≥LOD	N/A	ND	PASS
Imazalil	0.02/0.06	≥LOD	N/A	ND	PASS
Methiocarb	0.02/0.07	≥LOD	N/A	ND	PASS
Methyl parathion	0.03/0.10	≥LOD	N/A	ND	PASS
Mevinphos	0.03/0.09	≥LOD	N/A	ND	PASS
Paclobutrazol	0.02/0.05	≥LOD	N/A	ND	PASS
Propoxur	0.03/0.09	≥LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥LOD	N/A	ND	PASS

CATEGORY 2 PESTICIDE TEST RESULTS - 05/18/2021 OPASS

Abamectin 0.03 / 0.10 0.3 N/A ND Acephate 0.02 / 0.07 5 N/A ND Acequinocyl 0.02 / 0.07 4 N/A ND Acetamiprid 0.02 / 0.05 5 N/A ND Acetamiprid 0.02 / 0.07 40 N/A ND Azoxystrobin 0.02 / 0.07 40 N/A ND Bifenazate 0.01 / 0.04 5 N/A ND Bifenthrin 0.02 / 0.05 0.5 N/A ND Boscalid 0.03 / 0.09 10 N/A ND Captan 0.19 / 0.57 5 N/A ND	PASS PASS PASS PASS PASS PASS PASS PASS
Acequinocyl 0.02 / 0.07 4 N/A ND Acetamiprid 0.02 / 0.05 5 N/A ND Azexystrobin 0.02 / 0.07 40 N/A ND Bifenazate 0.01 / 0.04 5 N/A ND Bifenthrin 0.02 / 0.05 0.5 N/A ND Boscalid 0.03 / 0.09 10 N/A ND Captan 0.19 / 0.57 5 N/A ND	PASS PASS PASS PASS PASS PASS
Acetamiprid 0.02 / 0.05 5 N/A ND Azoxystrobin 0.02 / 0.07 40 N/A ND Bifenazate 0.01 / 0.04 5 N/A ND Bifenthrin 0.02 / 0.05 0.5 N/A ND Boscalid 0.03 / 0.09 10 N/A ND Captan 0.19 / 0.57 5 N/A ND	PASS PASS PASS PASS PASS
Azoxystrobin 0.02 / 0.07 40 N/A ND Bifenazate 0.01 / 0.04 5 N/A ND Bifenthrin 0.02 / 0.05 0.5 N/A ND Boscalid 0.03 / 0.09 10 N/A ND Captan 0.19 / 0.57 5 N/A ND	PASS PASS PASS PASS
Bifentaria 0.01/0.04 5 N/A ND Bifenthrin 0.02/0.05 0.5 N/A ND Boscalid 0.03/0.09 10 N/A ND Captan 0.19/0.57 5 N/A ND	PASS PASS PASS
Bifenthrin 0.02 / 0.05 0.5 N/A ND Boscalid 0.03 / 0.09 10 N/A ND Captan 0.19 / 0.57 5 N/A ND	PASS
Boscalid 0.03/0.09 10 N/A ND Captan 0.19/0.57 5 N/A ND	PASS
Captan 0.19/0.57 5 N/A ND	
	DACC
	PASS
Carbaryl 0.02 / 0.06 0.5 N/A ND	PASS
Chlorantraniliprole 0.04 / 0.12 40 N/A ND	PASS
Clofentezine 0.03 / 0.09 0.5 N/A ND	PASS
Cyfluthrin 0.12/0.38 1 N/A ND	PASS
Cypermethrin 0.11/0.32 1 N/A ND	PASS
Diazinon 0.02 / 0.05 0.2 N/A ND	PASS
Dimethomorph 0.03 / 0.09 20 N/A ND	PASS
Etoxazole 0.02 / 0.06 1.5 N/A ND	PASS
Fenhexamid 0.03 / 0.09 10 N/A ND	PASS
Fenpyroximate 0.02 / 0.06 2 N/A ND	PASS



Continued on next page

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CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by

CATEGORY 2 PESTICIDE TEST RESULTS - 05/18/2021 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Flonicamid	0.03/0.10	2	N/A	ND	PASS
Fludioxonil	0.03/0.10	30	N/A	ND	PASS
Hexythiazox	0.02/0.07	2	N/A	ND	PASS
Imidacloprid	0.04/0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02/0.07	1	N/A	ND	PASS
Malathion	0.03/0.09	5	N/A	ND	PASS
Metalaxyl	0.02/0.07	15	N/A	ND	PASS
Methomyl	0.03/0.10	0.1	N/A	ND	PASS
Myclobutanil	0.03/0.09	9	N/A	ND	PASS
Naled	0.02/0.07	0.5	N/A	ND	PASS
Oxamyl	0.04/0.11	0.2	N/A	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
Permethrin	0.04/0.12	20	N/A	ND	PASS
Phosmet	0.03/0.10	0.2	N/A	ND	PASS
Piperonylbutoxide	0.02/0.07	8	N/A	ND	PASS
Prallethrin	0.03/0.08	0.4	N/A	ND	PASS
Propiconazole	0.02/0.07	20	N/A	ND	PASS
Pyrethrins	0.04/0.12	1	N/A	ND	PASS
Pyridaben	0.02/0.07	3	N/A	ND	PASS
Spinetoram	0.02/0.07	3	N/A	ND	PASS
Spinosad	0.02/0.07	3	N/A	ND	PASS
Spiromesifen	0.02/0.05	12	N/A	ND	PASS
Spirotetramat	0.02/0.06	13	N/A	ND	PASS
Tebuconazole	0.02/0.07	2	N/A	ND	PASS
Thiamethoxam	0.03/0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03/0.08	30	N/A	ND	PASS

MYCOTOXIN TEST RESULTS - 05/18/2021 @ PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0/6.0		N/A	ND	
Aflatoxin B2	1.8/5.6		N/A	ND	
Aflatoxin G1	1.0/3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS



(HPLC-MS).

LC-MS

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| Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS



Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M[™] Petrifilm[™] and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M[™] Petrifilm[™]

HEAVY METALS TEST RESULTS - 05/19/2021 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02/0.1	1.5	N/A	ND	PASS
Cadmium	0.02/0.05	0.5	N/A	ND	PASS
Lead	0.04/0.1	0.5	N/A	ND	PASS
Mercury	0.002/0.01	3	N/A	ND	PASS

MICROBIOLOGY TEST RESULTS (PCR) - 05/20/2021 OPASS

COMPOUND	ACTION LIMIT	RESULT (cfu/g)	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND	PASS
Salmonella spp.	Detect	ND	PASS
Bile-Tolerant Gram-Negative Bacteria		ND	
Staphylococcus aureus		ND	

MICROBIOLOGY TEST RESULTS (PLATING) - 05/20/2021 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

