



Certificate of Analysis

Customer:
Palmetto Synergistic Research
8856 Pee Dee Hwy
Conway, SC 29527

Sample ID: **210816008**
Order Number: **CB210816003**
Sample Name: **Hemp 25 Peppermint Tincture**

Collected Date:
Received Date: **8/16/2021**
COA Released: **9/15/2021**

External Sample ID:
Batch Number: **21224**
Product Type: **Edible**
Sample Type: **Edible**

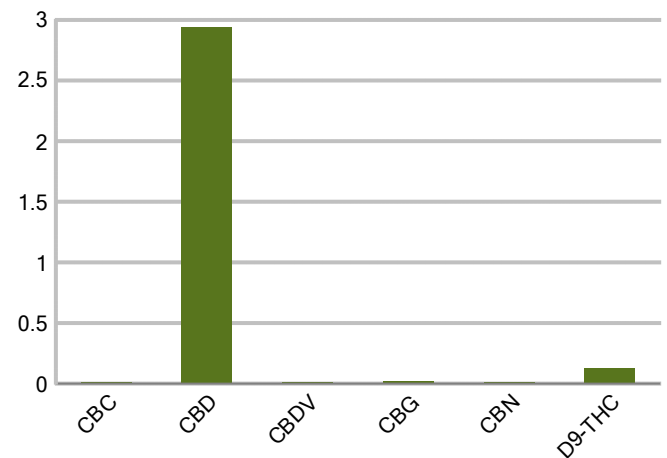
Comments:

CANNABINOID PROFILE

Analyte	LOQ (%)	% weight	mg/ml
CBC	0.01	0.017	0.159
CBD	0.01	2.944	27.38
CBDa	0.01	ND	ND
CBDV	0.01	0.015	0.139
CBG	0.01	0.022	0.203
CBGa	0.01	ND	ND
CBN	0.01	0.014	0.127
d8-THC	0.01	ND	ND
d9-THC	0.01	0.125	1.162
THCa	0.01	ND	ND
Total Cannabinoids		3.137	29.17
Total Potential THC		0.125	1.162
Total Potential CBD		2.944	27.38
Total Potential CBG		0.022	0.203



Cannabinoids (% weight)



Ratio of Total Potential CBD to Total Potential THC 23.55 : 1

Ratio of Total Potential CBG to Total Potential THC 0.18 : 1

*Total Cannabinoids refers to the sum of all cannabinoids detected.

*Total Potential CBD = (0.877 x CBDa) + CBD. *Total Potential THC = (0.877 x THCa) + THC. *Total Potential CBG = (0.877 x CBGa) + CBG.

*Total Potential THC/CBD are calculated to take into account the loss of an acid group during decarboxylation.



Authorized Signature

J. Hobgood
Laboratory Manager

Jamie Hobgood

09/15/2021 9:16 AM

DATE

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Sample Name: Hemp 25 Peppermint
Sample Type: Edible

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Overall Batch Results	
Pesticide	Moisture Content
Potency	Water Activity
Mycotoxins	Heavy Metals
Microbial Screen	Residual Solvents
Terpenoids	

Sample Name: Hemp 25 Peppermint Tincture
Sample ID: 210816008
Product Type: Edible
Sample Type: Edible
Collected Date:
Received Date: 08/16/2021
Batch Number: 21224
Batch Size:
Sample Size:
COA released: 09/15/2021 9:16 AM

Potency (mg/mL)			
Date Tested: 08/16/2021	Method: CB-SOP-028		
Instrument:			

0.125 %	2.944 %	3.137 %	29.17 mg/mL
Total THC	Total CBD	Total Cannabinoids	Total Cannabinoids

Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	0.017	%	0.010	0.159	mg/mL
CBD (Cannabidiol)	2.944	%	0.010	27.38	mg/mL
CBDa (Cannabidiolic Acid)	ND	%	0.010	ND	mg/mL
CBDV (Cannabidivarin)	0.015	%	0.010	0.139	mg/mL
CBG (Cannabigerol)	0.022	%	0.010	0.203	mg/mL
CBGa (Cannabigerolic Acid)	ND	%	0.010	ND	mg/mL
CBN (Cannabinol)	0.014	%	0.010	0.127	mg/mL
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/mL
D9-THC (D9-Tetrahydrocannabinol)	0.125	%	0.010	1.162	mg/mL
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010	ND	mg/mL

Terpenoids					
Date Tested: 08/18/2021	Method: CB-SOP-026				
Instrument:					

Analyte	Result	Unit	LOQ	Result	Unit
alpha-Bisabolol	<LOQ	mg/g	0.100	<LOQ	%
alpha-humulene	<LOQ	mg/g	0.100	<LOQ	%
alpha-pinene	<LOQ	mg/g	0.100	<LOQ	%
alpha-terpinene	<LOQ	mg/g	0.100	<LOQ	%
beta-caryophyllene	0.101	mg/g	0.100	0.0101	%
Beta-myrcene	<LOQ	mg/g	0.100	<LOQ	%
Beta-pinene	0.115	mg/g	0.100	0.0115	%
cis-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Camphene	<LOQ	mg/g	0.100	<LOQ	%
d-Limonene	0.175	mg/g	0.100	0.0175	%
delta-3-Carene	<LOQ	mg/g	0.100	<LOQ	%
Eucalyptol	0.469	mg/g	0.100	0.0469	%
gamma-Terpinene	<LOQ	mg/g	0.100	<LOQ	%
Geraniol	<LOQ	mg/g	0.100	<LOQ	%
Guaial	<LOQ	mg/g	0.100	<LOQ	%
Isopulegol	<LOQ	mg/g	0.100	<LOQ	%
Linalool	<LOQ	mg/g	0.100	<LOQ	%
Ocimene (mixture of isomers)	<LOQ	mg/g	0.100	<LOQ	%
p-Isopropyltoluene (p-Cymene)	<LOQ	mg/g	0.100	<LOQ	%
trans-beta-Ocimene	<LOQ	mg/g	0.100	<LOQ	%
trans-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Terpinolene	<LOQ	mg/g	0.100	<LOQ	%

Pesticides		
Date Tested: 08/20/2021	Method: CB-SOP-025	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Acephate	ND	ppm	0.010		Acetamiprid	ND	ppm	0.010	
Aldicarb	ND	ppm	0.010		Azoxystrobin	ND	ppm	0.010	
Bifenazate	ND	ppm	0.010		Bifenthrin	ND	ppm	0.100	
Boscalid	ND	ppm	0.010		Carbaryl	ND	ppm	0.010	
Carbofuran	ND	ppm	0.010		Chlorantraniliprole	ND	ppm	0.010	
Chlorpyrifos	ND	ppm	0.010		Clofentezine	ND	ppm	0.010	
Coumaphos	ND	ppm	0.010		Daminozide	ND	ppm	0.010	
Diazinon	ND	ppm	0.010		Dichlorvos	ND	ppm	0.010	
Dimethoate	ND	ppm	0.010		Etofenprox	ND	ppm	0.010	
Etoxazole	ND	ppm	0.010		Fenhexamid	ND	ppm	0.010	
Fenoxycarb	ND	ppm	0.010		Fenpyroximate	ND	ppm	0.010	
Fipronil	ND	ppm	0.010		Flonicamid	ND	ppm	0.100	

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOL = Above upper limit of linearity; CFU/g = Colony forming units per 1 gram; TNTC = Too numerous to count

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Sample Type: Edibles

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Pesticides		
Date Tested: 08/20/2021	Method: CB-SOP-025	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Fludioxonil	ND	ppm	0.010		Hexythiazox	ND	ppm	0.010	
Imazalil	ND	ppm	0.010		Imidacloprid	ND	ppm	0.010	
Malathion	ND	ppm	0.010		Metalaxyl	ND	ppm	0.010	
Methiocarb	ND	ppm	0.010		Methomyl	ND	ppm	0.010	
Myclobutanil	ND	ppm	0.010		Naled	ND	ppm	0.010	
Oxamyl	ND	ppm	0.010		Paclobutrazol	ND	ppm	0.010	
Phosmet	ND	ppm	0.010		Prallethrin	ND	ppm	0.010	
Propiconazole	ND	ppm	0.010		Propoxur	ND	ppm	0.010	
Pyrethrin I	ND	ppm	0.010		Pyrethrin II	ND	ppm	0.010	
Pyridaben	ND	ppm	0.010		Spinetoram	ND	ppm	0.010	
Spiromesifen	ND	ppm	0.010		Spirotetramat	ND	ppm	0.010	
Tebuconazole	ND	ppm	0.010		Thiacloprid	ND	ppm	0.010	
Thiamethoxam	ND	ppm	0.010		Trifloxystrobin	ND	ppm	0.010	
Ethoprophos	ND	ppm	0.010		Kresoxym-methyl	ND	ppm	0.010	
Permethrins	ND	ppm	0.010		Piperonyl Butoxide	ND	ppm	0.010	
Spinosyn A	ND	ppm	0.010		Spiroxamine-1	ND	ppm	0.010	
AbamectinB1a	ND	ppm	0.010		Spinosyn D	ND	ppm	0.010	

Mycotoxins		
Date Tested: 08/20/2021	Method: CB-SOP-025	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ochratoxin A	ND	ppm	0.010		Aflatoxin B1	ND	ppm	0.010	
Aflatoxin G2	ND	ppm	0.010		Aflatoxin B2	ND	ppm	0.010	
Aflatoxin G1	ND	ppm	0.010						

Metals		
Date Tested: 08/19/2021	Method: CB-SOP-027	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Arsenic	<LOQ	ppm	0.500		Cadmium	<LOQ	ppm	0.500	
Lead	<LOQ	ppm	0.500		Mercury	<LOQ	ppm	3.000	

Microbial		
Date Tested: 08/19/2021	Method:	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
STEC (E. coli)	Negative				Salmonella	Negative			
L. monocytogenes	Negative				Yeast/Mold (qPCR)	0	CFUs		

Residual Solvent		
Date Tested: 08/18/2021	Method: CB-SOP-032	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
1-4 Dioxane	<LOQ	ppm	29		2-Butanol	<LOQ	ppm	175	
2-Ethoxyethanol	<LOQ	ppm	24		2-Methylpentane	<LOQ	ppm	87	
3-Methylpentane	<LOQ	ppm	87		2-Propanol	<LOQ	ppm	350	
Cyclohexane	<LOQ	ppm	146		Ether	<LOQ	ppm	350	
Ethylbenzene	<LOQ	ppm	81		Acetone	<LOQ	ppm	350	
Isopropyl Acetate	<LOQ	ppm	175		Methylbutane	<LOQ	ppm	350	
n-Heptane	<LOQ	ppm	350		n-Hexane	<LOQ	ppm	87	
n-Pentane	<LOQ	ppm	350		Tetrahydrofuran	<LOQ	ppm	54	
Acetonitrile	<LOQ	ppm	123		Ethanol	<LOQ	ppm	350	

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Residual Solvent		
Date Tested: 08/18/2021	Method: CB-SOP-032	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ethyl acetate	<LOQ	ppm	175		o-Xylene	<LOQ	ppm	81	
m+p-Xylene	<LOQ	ppm	163		Methanol	<LOQ	ppm	250	
Methylene Chloride	<LOQ	ppm	90		Toluene	<LOQ	ppm	67	



Authorized Signature


Laboratory Manager

Jamie Hobgood

09/15/2021 9:16 AM

Date Time

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