

Matrix: Tincture - MCT Oil

Certificate ID: 30193 (Preli Date Received: 4/27/2018

Client Sample ID: Batch 1009 Lot 2

Lot Number:

Palmetto Synergistic Research LLC 216 Labonte Street, Unit B Conway, SC 29526 Attn: Janel Ralph

Authorization: Signature: Date: mistophen Hudalla Chris Hudalla, Chief Science Officer 4/30/2018



CN: Cannabinoid Profile & Potency [WI-10-04]

Analyst: RAS

Test Date: 4/30/2018

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

30193-CN

ID	Weight %	Conc.			
∆9-ТНС	0.07 wt %	0.70 mg/mL	-		
THCV	ND	ND			
CBD	2.30 wt %	22.36 mg/mL			
CBDV	0.01 wt %	0.12 mg/mL			
CBG	0.03 wt %	0.32 mg/mL			
CBC	0.11 wt %	1.11 mg/mL	-		
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
Total	2.54 wt%	24.62 mg/mL	0%	Cannabinoids (wt%)	2.3%
Max THC	0.07 wt%	0.70 mg/mL			
Max CBD	2.30 wt%	22.36 mg/mL			

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = $(0.877 \times THCA) + THC$. ND = None detected above the limits of detection (LLD)

M: Yeast and Mold Contaminants [WI-10-09]		Analyst: MS		1000 200	Test Date: 4/27/2018	
	reproduced except in their ent		SO/IEC 17025. T	hese results relate	e only to the test article	listed in this
30193-YM						
Symbol	Analysis		Results	Units	Limits*	Status
YM	Total Yeast & Mold		<100	CFU/g	10,000 CFU/g	PASS
MB2: Pathogenic Ba	cterial Contaminants [W	7-10-101		Analyst: I-Jen	Test Da	te: 4/28/2018
This test method was perfo	rmed in accordance with the re e reproduced except in their ent	equirements of I				listed in this
Test ID	Analysis		Results	Units	Limits*	Status
30193-ECPT	E. coli (O157)		Negative	NA	Non Detected	PASS
30193-SPT	Salmonella		Negative	NA	Non Detected	PASS
MY: Mycotoxin Testi	ng [WI-10-05]			Analyst: AR	Test Da	te: 4/30/2018
	ormed in accordance with the re					
This test method was perfo report. Reports may not be						
This test method was perforeport. Reports may not be 30193-MY	rmed in accordance with the re e reproduced except in their ent		SO/IEC 17025. T	hese results relate	e only to the test article	listed in this
This test method was perforeport. Reports may not be 30193-MY Test ID	prmed in accordance with the re e reproduced except in their ent Date	tirety.	SO/IEC 17025. T MD	These results related	e only to the test article Limits S	listed in this tatus*
This test method was perforeport. Reports may not be 30193-MY	prmed in accordance with the re- e reproduced except in their ent Date 4/30/2018	tirety. Results	SO/IEC 17025. T MD 3 pj	These results related of the second s	e only to the test article Limits S < 20 ppb F	listed in this tatus* PASS
This test method was perforeport. Reports may not be 30193-MY Test ID Total Aflatoxin	prmed in accordance with the re- e reproduced except in their ent Date 4/30/2018	tirety. Results < MDL	SO/IEC 17025. T MD	These results related of the second s	e only to the test article Limits S < 20 ppb F	listed in this tatus*
This test method was perfo report. Reports may not be 30193-MY Test ID Total Aflatoxin Total Ochratoxir	Date 4/30/2018 4/30/2018	tirety. Results < MDL	SO/IEC 17025. T MD 3 pj 2 pj	These results related of the second s	e only to the test article Limits S < 20 ppb F < 20 ppb F	listed in this tatus* PASS
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ppb

0.10

10

ND

Imazalil

35554-44-0

PASS

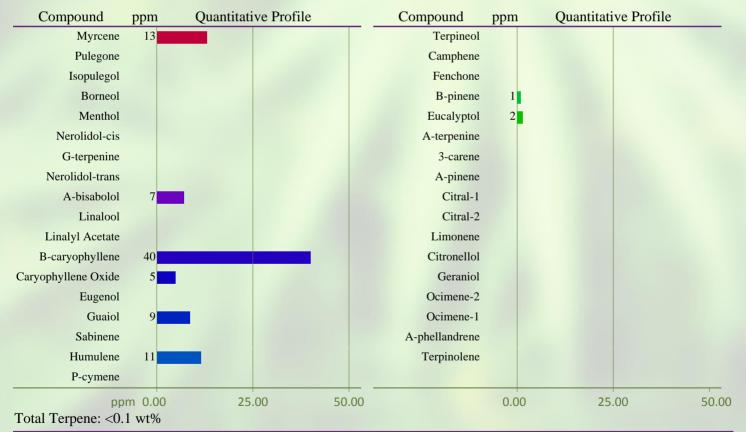
Palmetto Synergistic Research LLC		30193			Batch 1009 Lot 2 (Tincture - MCT C	
Imidacloprid	138261-41-3	ND	ppb	0.10	20	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	20	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	3000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	500	PASS
Spinosad	168316-95-8	ND	ppb	0.1	100	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	100	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	100	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	100	PASS

* Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

TP: Terpenes Profile [WI-10-08]
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Analyst: CJH Test Date: 4/29/2018

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.



30193-TP

* Indicates qualitative calculation based on recorded peak areas.

VC: Analysis of Volatile Oranic Compounds [WI-10-07] Analyst: CJH Test Date: 4/29/2018

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

30193-VC

Compound	CAS	Amount ¹	Limit ²	Status
Propane	74-98-6	ND	N/A	-
Isobutane	75-28-5	ND	5,000 ppm	PASS
Butane	106-97-8	ND	5,000 ppm	PASS
Methanol	67-56-1	ND	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
Acetone	67-64-1	ND	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
Hexane	110-54-3	ND	290 ppm	PASS
Heptane	142-82-5	ND	5,000 ppm	PASS

1) ND = None detected above 5 ppm.

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

END OF REPORT