

MMHS012

Sample ID: 2106PSI0182.07018
Strain: N/A
Matrix: Ingestible
Type: Tincture

METRC Batch ID:
METRC Sample:

Produced:
Date Received: 06/15/2021
Completed: 06/17/2021
Sample Size: - ; Batch: -

Arbor Botanicals
Lic. #
605 S Maple
Ann Arbor, MI 48103

Cannabinoids

5.76 **141.79**

Δ 9-THC (mg/unit) CBD (mg/unit)

Testing Method: HPLC-DAD / SOP - PSIMTDA
Date Tested: 06/17/2021
1 Unit = 1 fl oz, 28.4g



Analyte	LOQ	Mass	Mass
	mg/unit	mg/unit	mg/g
THCa	1.33	ND	ND
Δ 9-THC	1.33	5.76	0.20
Δ 8-THC	1.33	ND	ND
CBDa	1.33	ND	ND
CBD	1.33	141.79	4.99
CBN	1.33	ND	ND
Total		147.55	5.20

Total THC = THCa * 0.877 + Δ 9-THC
Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation, ND = Not Detected; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

Safety

Foreign Matter

Visual Exam / SOP - PSIMTDF

Pass



L. Spivak
Lev Spivak-Birndorf
CSO



MMHS012

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Type: Tincture

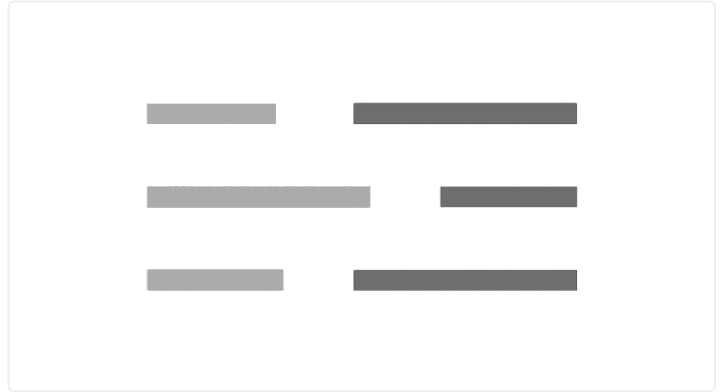
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Ann Arbor, MI 48103

Foreign Matter

Pass



Notes:

Date Tested:
Testing Method: Visual Exam / SOP - PSIMTDF



Lev Spivak-Birndorf
CSO



ZSP2

Batch ID:	OTHERS	Test ID:	T000093968
Reported:	4-Sep-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		


RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	81 - 1625	*ND
Butanes (Isobutane, n-Butane)	167 - 3339	*ND
Methanol	67 - 1339	*ND
Pentane	97 - 1932	*ND
Ethanol	95 - 1897	*ND
Acetone	109 - 2182	*ND
Isopropyl Alcohol	113 - 2262	*ND
Hexane	7 - 132	*ND
Ethyl Acetate	110 - 2197	*ND
Benzene	0.2 - 4.4	*ND
Heptanes	103 - 2052	*ND
Toluene	20 - 398	*ND
Xylenes (m,p,o-Xylenes)	144 - 2890	*ND

* ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
N/A

FINAL APPROVAL


 Daniel Weidensaul
 4-Sep-2020
 4:15 PM


 Scott Hansen
 4-Sep-2020
 5:18 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

ZSP2

Batch ID:	Others	Test ID:	T000093969
Reported:	8-Sep-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	42 - 2360	ND*	Malathion	265 - 2360	ND*
Acetamiprid	38 - 2360	ND*	Metalaxyl	39 - 2360	ND*
Abamectin	>328	ND*	Methiocarb	39 - 2360	ND*
Azoxystrobin	39 - 2360	ND*	Methomyl	42 - 2360	ND*
Bifenazate	41 - 2360	ND*	MGK 264 1	150 - 2360	ND*
Boscalid	45 - 2360	ND*	MGK 264 2	112 - 2360	ND*
Carbaryl	39 - 2360	ND*	Myclobutanil	39 - 2360	ND*
Carbofuran	41 - 2360	ND*	Naled	37 - 2360	ND*
Chlorantraniliprole	42 - 2360	ND*	Oxamyl	39 - 2360	ND*
Chlorpyrifos	51 - 2360	ND*	Paclobutrazol	42 - 2360	ND*
Clofentezine	265 - 2360	ND*	Permethrin	284 - 2360	ND*
Diazinon	272 - 2360	ND*	Phosmet	40 - 2360	ND*
Dichlorvos	>233	ND*	Prophos	297 - 2360	ND*
Dimethoate	39 - 2360	ND*	Propoxur	39 - 2360	ND*
E-Fenpyroximate	286 - 2360	ND*	Pyridaben	290 - 2360	ND*
Etofenprox	42 - 2360	ND*	Spinosad A	28 - 2360	ND*
Etoxazole	288 - 2360	ND*	Spinosad D	76 - 2360	ND*
Fenoxycarb	>37	ND*	Spiromesifen	>276	ND*
Fipronil	57 - 2360	ND*	Spirotetramat	>275	ND*
Flonicamid	46 - 2360	ND*	Spiroxamine 1	17 - 2360	ND*
Fludioxonil	>285	ND*	Spiroxamine 2	22 - 2360	ND*
Hexythiazox	39 - 2360	ND*	Tebuconazole	285 - 2360	ND*
Imazalil	254 - 2360	ND*	Thiacloprid	41 - 2360	ND*
Imidacloprid	37 - 2360	ND*	Thiamethoxam	41 - 2360	ND*
Kresoxim-methyl	38 - 2360	ND*	Trifloxystrobin	42 - 2360	ND*


* ND = None Detected (Defined by Dynamic Range of the method)

N/A

Certificate reissued upon further laboratory review

FINAL APPROVAL

 Tyler Wiese
 8-Sep-2020
 4:51 PM

 Ben Minton
 8-Sep-2020
 6:03 PM

PREPARED BY / DATE

APPROVED BY / DATE

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ZSP2


Batch ID:	Others	Test ID:	T000093970
Reported:	3-Sep-2020	Method:	TM19
Type:	Concentrate		
Test:	Metals		

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.065 - 6.47	ND
Cadmium	0.064 - 6.38	ND
Mercury	0.067 - 6.72	ND
Lead	0.065 - 6.50	ND


* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL



Ryan Weems
3-Sep-2020
4:44 PM

PREPARED BY / DATE



Ben Minton
3-Sep-2020
5:07 PM

APPROVED BY / DATE

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ZSP2

Batch ID:	Microbes	Test ID:	T000093971
Reported:	6-Sep-2020	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
<i>E. coli</i>	None Detected
<i>Salmonella</i>	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100$ CFU
 $10^3 = 1,000$ CFU
 $10^4 = 10,000$ CFU
 $10^5 = 100,000$ CFU

NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL


Sarah Henning
6-Sep-2020
1:33 PM
Greg Zimpfer
6-Sep-2020
3:52 PM

PREPARED BY / DATE

APPROVED BY / DATE

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