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CERTIFICATE OF ANALYSIS

Prepared for:
SUPERIOR MOLECULAR LLC
4459 WHITE BEAR PKWY
WHITE BEAR LAKE, MN USA 55110

Oliphant Sour Peaches & Cream 02/15/2024

Batch ID or Lot Number:	Test:	Reported:	USDA License:
021524	**Potency**	**20Feb2024**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000271347	20Feb2024	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	19Feb2024	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.300	0.974	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.275	0.891	ND	ND	
Cannabidiol (CBD)	0.877	2.498	ND	ND	
Cannabidiolic Acid (CBDA)	0.900	2.562	ND	ND	
Cannabidivarin (CBDV)	0.207	0.591	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.375	1.069	ND	ND	
Cannabigerol (CBG)	0.171	0.553	ND	ND	
Cannabigerolic Acid (CBGA)	0.713	2.311	ND	ND	
Cannabinol (CBN)	0.222	0.721	5.020	1.30	
Cannabinolic Acid (CBNA)	0.486	1.577	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.849	2.753	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.771	2.500	5.090	1.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.683	2.215	ND	ND	
Tetrahydrocannabivarin (THCV)	0.155	0.503	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.603	1.954	ND	ND	
Total Cannabinoids			**10.110**	**2.60**	
Total Potential THC			5.090	1.30	
Total Potential CBD			ND	ND	

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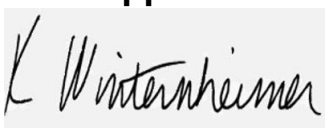

Karen Winternheimer
20Feb2024
02:19:00 PM MST
PREPARED BY / DATE

Sam Smith
20Feb2024
02:20:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6f06bc21-57ec-4b2f-bcca-22b7c6e4cd34

Definitions
% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
021524	**Heavy Metals**	**20Feb2024**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000271350	19Feb2024	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	19Feb2024	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 5.10	ND	
Cadmium	0.05 - 4.91	ND	
Mercury	0.05 - 5.15	ND	
Lead	0.05 - 5.11	ND	

Final Approval

Sam Smith
20Feb2024
09:38:00 AM MST
PREPARED BY / DATE

Sam Smith
20Feb2024
09:43:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ce19d19b-4a9d-4090-81be-c556088b6c45

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Oliphant Sour Peaches & Cream 02/15/2024

Batch ID or Lot Number:	Test:	Reported:	USDA License:
021524	**Microbial Contaminants**	**22Feb2024**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000271349	19Feb2024	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 19Feb2024	Status: NA

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10^2 CFU/g	$1.0x10^3$ - $1.5x10^5$	None Detected	
Total Coliforms*	TM27: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	

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Brett Hudson
22Feb2024
10:44:00 AM MST
PREPARED BY / DATE

Eden Thompson-Wright
22Feb2024
02:05:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/78f2e956-823e-430f-a304-f6250ac25c83

Definitions
* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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Oliphant Sour Peaches & Cream 02/15/2024

Batch ID or Lot Number:	Test:	Reported:	USDA License:
021524	**Pesticides**	**28Feb2024**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000271348	26Feb2024	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	19Feb2024	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	277 - 2691	ND
Acephate	42 - 2661	ND
Acetamiprid	41 - 2675	ND
Azoxystrobin	48 - 2688	ND
Bifenazate	44 - 2695	ND
Boscalid	46 - 2666	ND
Carbaryl	42 - 2691	ND
Carbofuran	44 - 2692	ND
Chlorantraniliprole	40 - 2671	ND
Chlorpyrifos	53 - 2685	ND
Clofentezine	273 - 2698	ND
Diazinon	290 - 2692	ND
Dichlorvos	290 - 2674	ND
Dimethoate	40 - 2684	ND
E-Fenpyroximate	258 - 2738	ND
Etofenprox	46 - 2699	ND
Etoxazole	289 - 2622	ND
Fenoxycarb	42 - 2696	ND
Fipronil	41 - 2821	ND
Flonicamid	50 - 2744	ND
Fludioxonil	303 - 2688	ND
Hexythiazox	42 - 2739	ND
Imazalil	275 - 2727	ND
Imidacloprid	43 - 2746	ND
Kresoxim-methyl	42 - 2730	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	290 - 2684	ND
Metalaxyl	43 - 2715	ND
Methiocarb	43 - 2701	ND
Methomyl	40 - 2717	ND
MGK 264 1	170 - 1633	ND
MGK 264 2	100 - 1073	ND
Myclobutanil	40 - 2682	ND
Naled	45 - 2651	ND
Oxamyl	41 - 2712	ND
Paclobutrazol	46 - 2710	ND
Permethrin	284 - 2754	ND
Phosmet	41 - 2562	ND
Prophos	291 - 2668	ND
Propoxur	42 - 2697	ND
Pyridaben	291 - 2708	ND
Spinosad A	32 - 2080	ND
Spinosad D	66 - 668	ND
Spiromesifen	261 - 2707	ND
Spirotetramat	288 - 2747	ND
Spiroxamine 1	16 - 1023	ND
Spiroxamine 2	25 - 1588	ND
Tebuconazole	287 - 2690	ND
Thiacloprid	42 - 2695	ND
Thiamethoxam	42 - 2725	ND
Trifloxystrobin	45 - 2706	ND

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Karen Winternheimer
28Feb2024
10:34:00 AM MST
PREPARED BY / DATE

Sam Smith
28Feb2024
10:39:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4910b4f7-7376-48c5-ae76-a50f6bbfec9d

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Oliphant Sour Peaches & Cream 02/15/2024

Batch ID or Lot Number:	Test:	Reported:	USDA License:
021524	**Residual Solvents**	**20Feb2024**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000271351	20Feb2024	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	19Feb2024	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	98 - 1956	ND	
Butanes (Isobutane, n-Butane)	181 - 3620	ND	
Methanol	59 - 1173	ND	
Pentane	81 - 1615	ND	
Ethanol	87 - 1735	ND	
Acetone	100 - 2004	ND	
Isopropyl Alcohol	104 - 2079	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	97 - 1945	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	90 - 1794	ND	
Toluene	17 - 345	ND	
Xylenes (m,p,o-Xylenes)	119 - 2381	ND	

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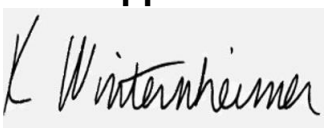

Karen Winternheimer
20Feb2024
02:03:00 PM MST
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Sam Smith
20Feb2024
02:04:00 PM MST
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https://results.botanacor.com/api/v1/coas/uuid/29c10f16-7d59-4199-bc28-da431c5021a0

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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