

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

OG.Pretz.100722

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
OG.Pretz.100722	Various	Unit	
Reported:	Started:	Received:	
11Oct2022	10Oct2022	10Oct2022	

Cannabinoids Test ID: T00022/117

Methods: TM14 (HPLC-DAD)	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.032	0.114	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.029	0.104	ND	ND	Sample Weight=2g
Cannabidiol (CBD)	0.098	0.295	ND	ND	
Cannabidiolic Acid (CBDA)	0.101	0.302	ND	ND	
Cannabidivarin (CBDV)	0.023	0.070	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.042	0.126	ND	ND	
Cannabigerol (CBG)	0.018	0.065	ND	ND	
Cannabigerolic Acid (CBGA)	0.077	0.270	ND	ND	
Cannabinol (CBN)	0.024	0.084	ND	ND	
Cannabinolic Acid (CBNA)	0.052	0.185	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.091	0.322	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.083	0.293	1.020	0.50	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.073	0.259	ND	ND	
Tetrahydrocannabivarin (THCV)	0.017	0.059	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.065	0.229	ND	ND	
Total Cannabinoids			1.020	0.51	
Total Potential THC			1.020	0.51	
Total Potential CBD			ND	ND	

Final Approval

Sawantha Smoth 110ct2022 01:56:00 PM MDT

Sam Smith

PREPARED BY / DATE

Wittenhumen 110ct2022 02:00:00 PM MDT APPROVED BY / DATE

Karen Winternheimer

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OG.Pretz.100722

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 5
OG.Pretz.100722	Various	Unit	
Reported:	Started:	Received:	
11Oct2022	10Oct2022	10Oct2022	

Residual Solvents Test ID: T000224120

Test ID. 1000224120			
Methods: TM04 (GC-MS): Residual			
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	108 - 2157	ND	
Butanes (Isobutane, n-Butane)	222 - 4432	ND	
Methanol	64 - 1279	ND	
Pentane	112 - 2250	ND	
Ethanol	95 - 1905	ND	
Acetone	106 - 2127	ND	
Isopropyl Alcohol	94 - 1882	ND	
Hexane	7 - 135	ND	
Ethyl Acetate	105 - 2091	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	110 - 2196	ND	
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	109 - 2190	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 130ct2022 Muthhemen 07:11:00 PM MDT

Sam Smith 130ct2022 07:13:00 PM MDT APPROVED BY / DATE



Result (ppb) ND

ND ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

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OG.Pretz.100722		WHITE BEAR LAKE, MN USA 55110		
Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 5	
OG.Pretz.100722	Various	Unit		
Reported:	Started:	Received:		
11Oct2022	10Oct2022	10Oct2022		

Pesticides

Test ID: T000224118

Methods: TM17				
(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)
Abamectin	336 - 2809	ND	Malathion	285 - 2713
Acephate	43 - 2703	ND	Metalaxyl	40 - 2727
Acetamiprid	40 - 2687	ND	Methiocarb	42 - 2749
Azoxystrobin	41 - 2723	ND	Methomyl	42 - 2695
Bifenazate	41 - 2706	ND	MGK 264 1	166 - 1608
Boscalid	35 - 2770	ND	MGK 264 2	114 - 1138
Carbaryl	40 - 2712	ND	Myclobutanil	48 - 2767
Carbofuran	42 - 2712	ND	Naled	44 - 2779
Chlorantraniliprole	43 - 2769	ND	Oxamyl	41 - 2689
Chlorpyrifos	43 - 2788	ND	Paclobutrazol	41 - 2720
Clofentezine	276 - 2752	ND	Permethrin	24 - 2686
Diazinon	271 - 2719	ND	Phosmet	41 - 2716
Dichlorvos	278 - 2710	ND	Prophos	299 - 2767
Dimethoate	42 - 2686	ND	Propoxur	39 - 2727
E-Fenpyroximate	284 - 2744	ND	Pyridaben	262 - 2738
Etofenprox	40 - 2750	ND	Spinosad A	33 - 2252
Etoxazole	291 - 2729	ND	Spinosad D	49 - 502
Fenoxycarb	41 - 2712	ND	Spiromesifen	289 - 2726
Fipronil	34 - 2789	ND	Spirotetramat	268 - 2728
Flonicamid	45 - 2683	ND	Spiroxamine 1	16 - 1182
Fludioxonil	289 - 2744	ND	Spiroxamine 2	23 - 1592
Hexythiazox	38 - 2747	ND	Tebuconazole	274 - 2744
Imazalil	266 - 2779	ND	Thiacloprid	41 - 2692
Imidacloprid	47 - 2700	ND	Thiamethoxam	42 - 2663
Kresoxim-methyl	38 - 2758	ND	Trifloxystrobin	43 - 2731

Final Approval



Karen Winternheimer 170ct2022 02:09:00 PM MDT

Sam Smith Samantha Small

170ct2022 02:12:00 PM MDT

APPROVED BY / DATE



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4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

OG.Pretz.100722

Batch ID or Lot Number: OG.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 5	
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022		

Mycotoxins

Test ID: T000224121 Methods: TM18 (UHPLC-QQQ						
LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes			
Ochratoxin A	1.34 - 123.05	ND	N/A			
Aflatoxin B1	0.88 - 31.33	ND				
Aflatoxin B2	2.38 - 30.85	ND				
Aflatoxin G1	1.01 - 31.06	ND				
Aflatoxin G2	1.22 - 30.94	ND				
Total Aflatoxins (B1, B2, G1, and G2	?)	ND				

Final Approval

Sam Smith Samantha Smith 210ct2022 10:29:00 AM MDT PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 Menheimer 10:31:00 AM MDT

Heavy Metals

Test ID: T000224119 Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.04 - 4.19	ND		
Cadmium	0.04 - 4.28	ND		
Mercury	0.04 - 3.79	ND		
Lead	0.04 - 4.13	ND		

Final Approval

PREPARED BY / DATE

Samantha Small	Sam Smith 25Oct2022 08:37:00 AM

MDT

Karen Winternheimer

25Oct2022 Mutenheumen 08:42:00 AM MDT APPROVED BY / DATE



OG.Pretz.100722

CERTIFICATE OF ANALYSIS

Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Batch ID or Lot Number: OG.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 5	
Reported:	Started:	Received:		
11Oct2022	10Oct2022	10Oct2022		



Definitions

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details



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4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Cinn.Map.100722 Batch ID or Lot Number: Test, Test ID and Methods: Matrix: Page 1 of 5 Cinn.Map.100722 Various Unit Reported: Started: Received: 11Oct2022 10Oct2022 10Oct2022

Cannabinoids + ID. TOOO224112

Methods: TM14 (HPLC-DAD)	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.032	0.112	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.029	0.103	ND	ND	Sample Weight=2g
Cannabidiol (CBD)	0.097	0.290	ND	ND	
Cannabidiolic Acid (CBDA)	0.099	0.298	ND	ND	
Cannabidivarin (CBDV)	0.023	0.069	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.041	0.124	ND	ND	
Cannabigerol (CBG)	0.018	0.064	ND	ND	
Cannabigerolic Acid (CBGA)	0.075	0.267	ND	ND	
Cannabinol (CBN)	0.024	0.083	ND	ND	
Cannabinolic Acid (CBNA)	0.051	0.182	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.090	0.318	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.082	0.288	0.890	0.40	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.072	0.256	ND	ND	
Tetrahydrocannabivarin (THCV)	0.016	0.058	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.064	0.225	ND	ND	
Total Cannabinoids			0.890	0.44	
Total Potential THC			0.890	0.44	
Total Potential CBD			ND	ND	

Final Approval

Samanthe mode

Sam Smith 11Oct2022 01:56:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 11Oct2022 Waternheimer 02:00:00 PM MDT

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4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Cinn.Map.100722

Batch ID or Lot Number: Cinn.Map.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 5	
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022		

Residual Solvents

Test ID: T000224115			
Methods: TM04 (GC-MS): Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1979	ND	
Butanes (lsobutane, n-Butane)	203 - 4068	ND	
Methanol	59 - 1174	ND	
Pentane	103 - 2065	ND	
Ethanol	87 - 1749	ND	
Acetone	98 - 1953	ND	
Isopropyl Alcohol	86 - 1728	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	96 - 1919	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	101 - 2015	ND	
Toluene	15 - 305	ND	
Xylenes (m,p,o-Xylenes)	100 - 2010	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 130ct2022 Mutenheumer 07:11:00 PM MDT

Sam Smith 130ct2022 07:13:00 PM MDT APPROVED BY / DATE



Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Cinn.Map.100722		WHITE BEAR LAKE, MN USA 55110		
Batch ID or Lot Number: Cinn.Map.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 5	
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022		

Pesticides

Test ID: T000224113

Methods: TM17			
(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	336 - 2809	ND	Malathion
Acephate	43 - 2703	ND	Metalaxyl
Acetamiprid	40 - 2687	ND	Methiocarb
Azoxystrobin	41 - 2723	ND	Methomyl
Bifenazate	41 - 2706	ND	MGK 264 1
Boscalid	35 - 2770	ND	MGK 264 2
Carbaryl	40 - 2712	ND	Myclobutanil
Carbofuran	42 - 2712	ND	Naled
Chlorantraniliprole	43 - 2769	ND	Oxamyl
Chlorpyrifos	43 - 2788	ND	Paclobutrazol
Clofentezine	276 - 2752	ND	Permethrin
Diazinon	271 - 2719	ND	Phosmet
Dichlorvos	278 - 2710	ND	Prophos
Dimethoate	42 - 2686	ND	Propoxur
E-Fenpyroximate	284 - 2744	ND	Pyridaben
Etofenprox	40 - 2750	ND	Spinosad A
Etoxazole	291 - 2729	ND	Spinosad D
Fenoxycarb	41 - 2712	ND	Spiromesifen
Fipronil	34 - 2789	ND	Spirotetramat
Flonicamid	45 - 2683	ND	Spiroxamine 1
Fludioxonil	289 - 2744	ND	Spiroxamine 2
Hexythiazox	38 - 2747	ND	Tebuconazole
Imazalil	266 - 2779	ND	Thiacloprid
Imidacloprid	47 - 2700	ND	Thiamethoxam
Kresoxim-methyl	38 - 2758	ND	Trifloxystrobin

	Dynamic Range (ppb)	Result (ppb)
Malathion	285 - 2713	ND
Metalaxyl	40 - 2727	ND
Methiocarb	42 - 2749	ND
Methomyl	42 - 2695	ND
MGK 264 1	166 - 1608	ND
MGK 264 2	114 - 1138	ND
Myclobutanil	48 - 2767	ND
Naled	44 - 2779	ND
Oxamyl	41 - 2689	ND
Paclobutrazol	41 - 2720	ND
Permethrin	24 - 2686	ND
Phosmet	41 - 2716	ND
Prophos	299 - 2767	ND
Propoxur	39 - 2727	ND
Pyridaben	262 - 2738	ND
Spinosad A	33 - 2252	ND
Spinosad D	49 - 502	ND
Spiromesifen	289 - 2726	ND
Spirotetramat	268 - 2728	ND
Spiroxamine 1	16 - 1182	ND
Spiroxamine 2	23 - 1592	ND
Tebuconazole	274 - 2744	ND
Thiacloprid	41 - 2692	ND
Thiamethoxam	42 - 2663	ND
Trifloxystrobin	43 - 2731	ND

Final Approval



Karen Winternheimer 170ct2022 02:09:00 PM MDT

Sam Smith

Samantha Smoll	17Oct2022 02:12:00 PM MDT
APPROVED BY / DATE	



Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Cinn.Map.100722

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 5
Cinn.Map.100722	Various	Unit	
Reported:	Started:	Received:	
11Oct2022	10Oct2022	10Oct2022	

Mycotoxins

Dynamic Range (ppb)	Result (ppb)	Notes
1.41 - 129.58	ND	N/A
0.93 - 33.00	ND	
2.51 - 32.48	ND	
1.06 - 32.71	ND	
1.29 - 32.58	ND	
	ND	
	1.41 - 129.58 0.93 - 33.00 2.51 - 32.48 1.06 - 32.71	1.41 - 129.58 ND 0.93 - 33.00 ND 2.51 - 32.48 ND 1.06 - 32.71 ND 1.29 - 32.58 ND

Final Approval

Sam Smith Samantha Smith 210ct2022 10:29:00 AM MDT PREPARED BY / DATE

APPROVED BY / DATE

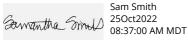
Karen Winternheimer 21Oct2022 Manheimer 10:31:00 AM MDT

Heavy Metals

Test ID: T000224114 Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.04 - 4.19	ND		
Cadmium	0.04 - 4.28	ND		
Mercury	0.04 - 3.79	ND		
Lead	0.04 - 4.13	ND		

Final Approval



APPROVED BY / DATE

Karen Winternheimer 25Oct2022 Wintersheimen 08:42:00 AM MDT

PREPARED BY / DATE



Cinn.Map.100722

CERTIFICATE OF ANALYSIS

Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Test, Test ID and Methods:	Matrix:	Page 5 of 5	
Various	Unit		
Started:	Received:		
10Oct2022	10Oct2022		
	Various Started:	Various Unit Started: Received:	Various Unit Started: Received:



Definitions

https://results.botanacor.com/api/v1/coas/uuid/d237a294-fc6f-4a10-9e0a-3073f90d5a5a

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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-THC *****(0.877)) and Total CBD = (CBD *****(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated by dynamic range of the method) during decarboxylation step. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total PC = THC + (THCa *****(0.877)). ALOQ = Above Limit of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.



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4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Ched.Pretz.100722		WHITE BEAR LAKE, MN USA 55110		
Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5	
Ched.Pretz.100722	Various	Unit		
Reported:	Started:	Received:		
11Oct2022	10Oct2022	10Oct2022		

Cannabinoids + ID. TOOODO 4100

Methods: TM14 (HPLC-DAD)	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.033	0.116	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.030	0.106	ND	ND	Sample Weight=2g
Cannabidiol (CBD)	0.100	0.299	ND	ND	
Cannabidiolic Acid (CBDA)	0.103	0.307	ND	ND	
Cannabidivarin (CBDV)	0.024	0.071	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.043	0.128	ND	ND	
Cannabigerol (CBG)	0.019	0.066	ND	ND	
Cannabigerolic Acid (CBGA)	0.078	0.275	ND	ND	
Cannabinol (CBN)	0.024	0.086	ND	ND	
Cannabinolic Acid (CBNA)	0.053	0.188	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.093	0.328	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.084	0.297	0.970	0.50	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.075	0.264	ND	ND	
Tetrahydrocannabivarin (THCV)	0.017	0.060	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.066	0.232	ND	ND	
Total Cannabinoids			0.970	0.48	
Total Potential THC			0.970	0.48	
Total Potential CBD			ND	ND	

Final Approval

Sawantha Smoth 110ct2022 01:56:00 PM MDT

Sam Smith

PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer Wittenhumen 110ct2022 02:00:00 PM MDT



Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Ched.Pretz.100722

Batch ID or Lot Number: Ched.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 5	
Reported: 110ct2022	Started: 10Oct2022	Received: 10Oct2022		

Residual Solvents

Test ID: T000224125			
Methods: TM04 (GC-MS): Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	112 - 2234	ND	
Butanes (lsobutane, n-Butane)	230 - 4591	ND	
Methanol	66 - 1324	ND	
Pentane	117 - 2331	ND	
Ethanol	99 - 1974	ND	
Acetone	110 - 2204	ND	
lsopropyl Alcohol	97 - 1950	ND	
Hexane	7 - 140	ND	
Ethyl Acetate	108 - 2166	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	114 - 2274	ND	
Toluene	17 - 344	ND	
Xylenes (m,p,o-Xylenes)	113 - 2268	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 130ct2022 Muternheimer 07:11:00 PM MDT

Sam Smith 130ct2022 07:13:00 PM MDT APPROVED BY / DATE



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Ched.Pretz.100722		WHITE BEAR LAKE, MN USA 55110		
Batch ID or Lot Number: Ched.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 5	
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022		

Pesticides

Test ID: T000224123

10000221125			
Methods: TM17			
(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	336 - 2809	ND	Malathion
Acephate	43 - 2703	ND	Metalaxyl
Acetamiprid	40 - 2687	ND	Methiocarb
Azoxystrobin	41 - 2723	ND	Methomyl
Bifenazate	41 - 2706	ND	MGK 264 1
Boscalid	35 - 2770	ND	MGK 264 2
Carbaryl	40 - 2712	ND	Myclobutani
Carbofuran	42 - 2712	ND	Naled
Chlorantraniliprole	43 - 2769	ND	Oxamyl
Chlorpyrifos	43 - 2788	ND	Paclobutraz
Clofentezine	276 - 2752	ND	Permethrin
Diazinon	271 - 2719	ND	Phosmet
Dichlorvos	278 - 2710	ND	Prophos
Dimethoate	42 - 2686	ND	Propoxur
E-Fenpyroximate	284 - 2744	ND	Pyridaben
Etofenprox	40 - 2750	ND	Spinosad A
Etoxazole	291 - 2729	ND	Spinosad D
Fenoxycarb	41 - 2712	ND	Spiromesife
Fipronil	34 - 2789	ND	Spirotetram
Flonicamid	45 - 2683	ND	Spiroxamine
Fludioxonil	289 - 2744	ND	Spiroxamine
Hexythiazox	38 - 2747	ND	Tebuconazo
Imazalil	266 - 2779	ND	Thiacloprid
Imidacloprid	47 - 2700	ND	Thiamethox
Kresoxim-methyl	38 - 2758	ND	Trifloxystrob

	- J	(pps)
Malathion	285 - 2713	ND
Metalaxyl	40 - 2727	ND
Methiocarb	42 - 2749	ND
Methomyl	42 - 2695	ND
MGK 264 1	166 - 1608	ND
MGK 264 2	114 - 1138	ND
Myclobutanil	48 - 2767	ND
Naled	44 - 2779	ND
Oxamyl	41 - 2689	ND
Paclobutrazol	41 - 2720	ND
Permethrin	24 - 2686	ND
Phosmet	41 - 2716	ND
Prophos	299 - 2767	ND
Propoxur	39 - 2727	ND
Pyridaben	262 - 2738	ND
Spinosad A	33 - 2252	ND
Spinosad D	49 - 502	ND
Spiromesifen	289 - 2726	ND
Spirotetramat	268 - 2728	ND
Spiroxamine 1	16 - 1182	ND
Spiroxamine 2	23 - 1592	ND
Tebuconazole	274 - 2744	ND
Thiacloprid	41 - 2692	ND
Thiamethoxam	42 - 2663	ND
Trifloxystrobin	43 - 2731	ND

Dynamic Range (ppb)

Result (ppb)

Final Approval



Karen Winternheimer 170ct2022 Mtenhemen 02:09:00 PM MDT

Sam Smith Samantha Smith 170ct2022 02:12:00 PM MDT

APPROVED BY / DATE

PREPARED BY / DATE



Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Ched.Pretz.100722

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 5
Ched.Pretz.100722	Various	Unit	
Reported:	Started:	Received:	
11Oct2022	10Oct2022	10Oct2022	

Mycotoxins

Test ID: T000224126			
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.42 - 130.40	ND	N/A
Aflatoxin B1	0.94 - 33.21	ND	
Aflatoxin B2	2.52 - 32.69	ND	
Aflatoxin G1	1.07 - 32.92	ND	
Aflatoxin G2	1.29 - 32.79	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith Samantha Smith 210ct2022 10:29:00 AM MDT PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 Menheimer 10:31:00 AM MDT

Heavy Metals

Test ID: T000224124 Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 3.79	ND	
Lead	0.04 - 4.13	ND	

Final Approval

	Sam Smith
Samantha Smoll	25Oct2022 08:37:00 AM

MDT

Karen Winternheimer 25Oct2022 Wintersheimen 08:42:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE



Ched.Pretz.100722

CERTIFICATE OF ANALYSIS

Prepared for: SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Batch ID or Lot Number: Ched.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 5	
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022		



Definitions

https://results.botanacor.com/api/v1/coas/uuid/1baf81fc-3e04-4a87-a23c-22dfe215e7e5

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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-THC a*(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.



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