

Prepared for:

**SUPERIOR MOLECULAR LLC**

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

**Ched.Pretz.100722**

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


## Cannabinoids

Test ID: T000224122


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, Sample Weight=2g
Cannabichromenic Acid (CBCA)	0.030	0.106	ND	ND	
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	
<b>Total Cannabinoids</b>			<b>0.970</b>	<b>0.48</b>	
Total Potential THC			0.970	0.48	
Total Potential CBD			ND	ND	

## Final Approval

 Sam Smith  
11Oct2022  
01:56:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer  
11Oct2022  
02:00:00 PM MDT

APPROVED 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: <b>Ched.Pretz.100722</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 5
Reported: <b>11Oct2022</b>	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 (Isobutane, n-Butane)	230 - 4591	ND	
Methanol	66 - 1324	ND	
Pentane	117 - 2331	ND	
Ethanol	99 - 1974	ND	
Acetone	110 - 2204	ND	
Isopropyl 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

  
Karen Winternheimer  
13Oct2022  
07:11:00 PM MDT  
PREPARED BY / DATE

  
Sam Smith  
13Oct2022  
07:13:00 PM MDT  
APPROVED 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: <b>Ched.Pretz.100722</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 5
Reported: <b>11Oct2022</b>	Started: 10Oct2022	Received: 10Oct2022	


## Pesticides


Test ID: T000224123

Methods: TM17

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

## Final Approval

 Karen Winternheimer  
17Oct2022  
02:09:00 PM MDT  
PREPARED BY / DATE

 Sam Smith  
17Oct2022  
02:12:00 PM MDT  
APPROVED 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: <b>Ched.Pretz.100722</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 5
Reported: <b>11Oct2022</b>	Started: 10Oct2022	Received: 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  
21Oct2022  
10:29:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
21Oct2022  
10:31:00 AM MDT  
APPROVED BY / DATE

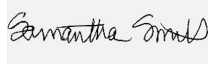
## Heavy Metals

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  
25Oct2022  
08:37:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
25Oct2022  
08:42:00 AM MDT  
APPROVED 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: <b>Ched.Pretz.100722</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 5
Reported: <b>11Oct2022</b>	Started: 10Oct2022	Received: 10Oct2022	



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

**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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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](#).



Cert #4329.02  
1baf81fc3e044a87a23c22dfe215e7e5.1