

Prepared for:

SUPERIOR MOLECULAR LLC

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 1 of 5
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022	


Cannabinoids


Test ID: T000224117

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, Sample Weight=2g
Cannabichromenic Acid (CBCA)	0.029	0.104	ND	ND	
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


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

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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

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Reported:

11Oct2022

Started:

10Oct2022

Received:

10Oct2022

Residual Solvents

Test ID: T000224120

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



Karen Winternheimer
13Oct2022
07:11:00 PM MDT

PREPARED BY / DATE



Sam Smith
13Oct2022
07:13:00 PM MDT

APPROVED BY / DATE

Prepared for:

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OG.Pretz.100722

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OG.Pretz.100722

Test, Test ID and Methods:

Various

Matrix:

Unit

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Reported:

11Oct2022

Started:

10Oct2022

Received:

10Oct2022

Pesticides

Test ID: T000224118

Methods: TM17

(LC-QQ LC MS/MS)

Dynamic Range (ppb)

Result (ppb)

Abamectin	336 - 2809	ND
Acephate	43 - 2703	ND
Acetamiprid	40 - 2687	ND
Azoxystrobin	41 - 2723	ND
Bifenazate	41 - 2706	ND
Boscalid	35 - 2770	ND
Carbaryl	40 - 2712	ND
Carbofuran	42 - 2712	ND
Chlorantraniliprole	43 - 2769	ND
Chlorpyrifos	43 - 2788	ND
Clofentezine	276 - 2752	ND
Diazinon	271 - 2719	ND
Dichlorvos	278 - 2710	ND
Dimethoate	42 - 2686	ND
E-Fenpyroximate	284 - 2744	ND
Etofenprox	40 - 2750	ND
Etoxazole	291 - 2729	ND
Fenoxycarb	41 - 2712	ND
Fipronil	34 - 2789	ND
Flonicamid	45 - 2683	ND
Fludioxonil	289 - 2744	ND
Hexythiazox	38 - 2747	ND
Imazalil	266 - 2779	ND
Imidacloprid	47 - 2700	ND
Kresoxim-methyl	38 - 2758	ND

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
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

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
21Oct2022
10:29:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer
21Oct2022
10:31:00 AM MDT

APPROVED BY / DATE


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

 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

OG.Pretz.100722

Batch ID or Lot Number:

OG.Pretz.100722

Test, Test ID and Methods:

Various

Matrix:

Unit

Page 5 of 5

Reported:

11Oct2022

Started:

10Oct2022

Received:

10Oct2022



<https://results.botanacor.com/api/v1/coas/uuid/cd479808-bffb-495d-9399-ce6183f2ec88>

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 \times (0.877)) and Total CBD = CBD + (CBDa \times (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 \times (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](#).



Cert #4329.02

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Prepared for:

SUPERIOR MOLECULAR LLC

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 1 of 5
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022	


Cannabinoids


Test ID: T000224112

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, Sample Weight=2g
Cannabichromenic Acid (CBCA)	0.029	0.103	ND	ND	
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


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

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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 (Isobutane, 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



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

Cinn.Map.100722

Batch ID or Lot Number:

Cinn.Map.100722

Test, Test ID and Methods:

Various

Matrix:

Unit

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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
Acephate	43 - 2703	ND
Acetamiprid	40 - 2687	ND
Azoxystrobin	41 - 2723	ND
Bifenazate	41 - 2706	ND
Boscalid	35 - 2770	ND
Carbaryl	40 - 2712	ND
Carbofuran	42 - 2712	ND
Chlorantraniliprole	43 - 2769	ND
Chlorpyrifos	43 - 2788	ND
Clofentezine	276 - 2752	ND
Diazinon	271 - 2719	ND
Dichlorvos	278 - 2710	ND
Dimethoate	42 - 2686	ND
E-Fenpyroximate	284 - 2744	ND
Etofenprox	40 - 2750	ND
Etoxazole	291 - 2729	ND
Fenoxycarb	41 - 2712	ND
Fipronil	34 - 2789	ND
Flonicamid	45 - 2683	ND
Fludioxonil	289 - 2744	ND
Hexythiazox	38 - 2747	ND
Imazalil	266 - 2779	ND
Imidacloprid	47 - 2700	ND
Kresoxim-methyl	38 - 2758	ND

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

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

Cinn.Map.100722

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

Mycotoxins


Test ID: T000224116

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.41 - 129.58	ND	N/A
Aflatoxin B1	0.93 - 33.00	ND	
Aflatoxin B2	2.51 - 32.48	ND	
Aflatoxin G1	1.06 - 32.71	ND	
Aflatoxin G2	1.29 - 32.58	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: 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

 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

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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 5 of 5
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022	



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

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](#).



Cert #4329.02

d237a294fc6f4a109e0a3073f90d5a5a.1

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 1 of 5
Reported: 11Oct2022	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	
Total Cannabinoids			0.970	0.48	
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

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Ched.Pretz.100722

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Reported: 11Oct2022	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

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4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

Ched.Pretz.100722

Batch ID or Lot Number:

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Test, Test ID and Methods:

Various

Matrix:

Unit

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Reported:

11Oct2022

Started:

10Oct2022

Received:

10Oct2022

Pesticides

Test ID: T000224123

Methods: TM17

(LC-QQ LC MS/MS)

Dynamic Range (ppb)

Result (ppb)

Abamectin	336 - 2809	ND
Acephate	43 - 2703	ND
Acetamiprid	40 - 2687	ND
Azoxystrobin	41 - 2723	ND
Bifenazate	41 - 2706	ND
Boscalid	35 - 2770	ND
Carbaryl	40 - 2712	ND
Carbofuran	42 - 2712	ND
Chlorantraniliprole	43 - 2769	ND
Chlorpyrifos	43 - 2788	ND
Clofentezine	276 - 2752	ND
Diazinon	271 - 2719	ND
Dichlorvos	278 - 2710	ND
Dimethoate	42 - 2686	ND
E-Fenpyroximate	284 - 2744	ND
Etofenprox	40 - 2750	ND
Etoxazole	291 - 2729	ND
Fenoxycarb	41 - 2712	ND
Fipronil	34 - 2789	ND
Flonicamid	45 - 2683	ND
Fludioxonil	289 - 2744	ND
Hexythiazox	38 - 2747	ND
Imazalil	266 - 2779	ND
Imidacloprid	47 - 2700	ND
Kresoxim-methyl	38 - 2758	ND

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 Winterheimer
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: Ched.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 5
Reported: 11Oct2022	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: Ched.Pretz.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 5
Reported: 11Oct2022	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: 10^2 = 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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