SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
BLUEBIRD BOTANICALS
PO BOX 271724
Louisville, CO USA 80027

SLPGUM-30

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
240306-55305	Various	Finished Product	
Reported:	Started:	Received:	
26Mar2024	25Mar2024	25Mar2024	

Residual Solvents - Colorado Compliance

Test ID: T000274796
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	104 - 2080	ND	
Butanes (Isobutane, n-Butane)	181 - 3628	ND	
Methanol	65 - 1306	ND	
Pentane	85 - 1693	ND	
Ethanol	96 - 1919	ND	
Acetone	103 - 2067	ND	
Isopropyl Alcohol	107 - 2144	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	105 - 2094	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	96 - 1927	ND	
Toluene	19 - 377	ND	
Xylenes (m,p,o-Xylenes)	134 - 2674	ND	

Final Approval

Karen Winternheimer
26Mar2024
02:40:00 PM MDT
PREPARED BY / DATE

Phillip Travisano
26Mar2024
02:41:00 PM MDT
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Mycotoxins - Colorado Compliance

Test ID: T000274797
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.43 - 134.37	ND	N/A
Aflatoxin B1	0.93 - 33.94	ND	
Aflatoxin B2	0.99 - 33.81	ND	
Aflatoxin G1	0.96 - 33.55	ND	
Aflatoxin G2	0.93 - 34.10	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Karen Winternheimer
28Mar2024
08:48:00 AM MDT
PREPARED BY / DATE


Phillip Travisano
28Mar2024
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Heavy Metals - Colorado Compliance

Test ID: T000274795
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.64	ND	
Cadmium	0.04 - 4.40	ND	
Mercury	0.04 - 4.42	ND	
Lead	0.04 - 4.38	ND	

Final Approval


Phillip Travisano
28Mar2024
03:29:00 PM MDT
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Colin Hendrickson
28Mar2024
05:35:00 PM MDT
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Pesticides

Test ID: T000274793
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	353 - 2766	ND
Acephate	40 - 2715	ND
Acetamiprid	42 - 2686	ND
Azoxystrobin	43 - 2696	ND
Bifenazate	40 - 2677	ND
Boscalid	50 - 2724	ND
Carbaryl	40 - 2687	ND
Carbofuran	42 - 2683	ND
Chlorantraniliprole	46 - 2776	ND
Chlorpyrifos	44 - 2738	ND
Clofentezine	281 - 2731	ND
Diazinon	281 - 2691	ND
Dichlorvos	270 - 2733	ND
Dimethoate	42 - 2686	ND
E-Fenpyroximate	261 - 2758	ND
Etofenprox	43 - 2727	ND
Etoxazole	277 - 2656	ND
Fenoxycarb	44 - 2705	ND
Fipronil	41 - 2620	ND
Flonicamid	40 - 2793	ND
Fludioxonil	255 - 2762	ND
Hexythiazox	41 - 2755	ND
Imazalil	282 - 2730	ND
Imidacloprid	48 - 2778	ND
Kresoxim-methyl	42 - 2735	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	287 - 2690	ND
Metalaxyl	45 - 2665	ND
Methiocarb	41 - 2782	ND
Methomyl	41 - 2736	ND
MGK 264 1	157 - 1604	ND
MGK 264 2	104 - 1096	ND
Myclobutanil	39 - 2780	ND
Naled	44 - 2666	ND
Oxamyl	40 - 2750	ND
Paclobutrazol	39 - 2687	ND
Permethrin	266 - 2762	ND
Phosmet	41 - 2559	ND
Prophos	288 - 2753	ND
Propoxur	43 - 2696	ND
Pyridaben	281 - 2768	ND
Spinosad A	34 - 2079	ND
Spinosad D	65 - 655	ND
Spiromesifen	269 - 2727	ND
Spirotetramat	282 - 2740	ND
Spiroxamine 1	15 - 1057	ND
Spiroxamine 2	23 - 1635	ND
Tebuconazole	284 - 2722	ND
Thiacloprid	41 - 2704	ND
Thiamethoxam	40 - 2730	ND
Trifloxystrobin	42 - 2699	ND

Final Approval

Karen Winternheimer
29Mar2024
01:11:00 PM MDT
PREPARED BY / DATE

Phillip Travisano
29Mar2024
01:13:00 PM MDT
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Microbial Contaminants - Colorado Compliance

Test ID: T000274794
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	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	

Final Approval

Brett Hudson
29Mar2024
11:24:00 AM MDT
PREPARED BY / DATE

Brianne Maillot
30Mar2024
07:25:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/235e44d2-5f01-4209-8075-07ea69df6a50

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. 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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