

Prepared for:
Puradyne Solutions
600 17th St Ste2800 D South
Denver, CO US 80202

CBD Distillate BS 80%

Batch ID or Lot Number: COTNO20-03	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 7
Reported: 17Oct2022	Started: 14Oct2022	Received: 14Oct2022	


Microbial Contaminants

Test ID: T000224701

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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


Brianne Maillot
17Oct2022
02:45:00 PM MDT
PREPARED BY / DATE


Eden Thompson-Wright
17Oct2022
04:23:00 PM MDT
APPROVED BY / DATE

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Denver, CO US 80202

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Residual Solvents


Test ID: T000224703

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1736	ND	
Butanes (Isobutane, n-Butane)	181 - 3617	ND	
Methanol	57 - 1137	ND	
Pentane	96 - 1925	ND	
Ethanol	93 - 1854	ND	
Acetone	95 - 1902	ND	
Isopropyl Alcohol	96 - 1923	ND	
Hexane	6 - 116	ND	
Ethyl Acetate	95 - 1903	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	97 - 1936	ND	
Toluene	17 - 343	ND	
Xylenes (m,p,o-Xylenes)	128 - 2561	ND	

Final Approval


Karen Winternheimer
20Oct2022
07:13:00 PM MDT
PREPARED BY / DATE


Sam Smith
20Oct2022
07:14:00 PM MDT
APPROVED BY / DATE

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Puradyne Solutions
600 17th St Ste2800 D South
Denver, CO US 80202

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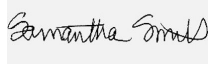
Batch ID or Lot Number: COTNO20-03	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 7
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Mycotoxins

Test ID: T000224704
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.40 - 128.10	ND	N/A
Aflatoxin B1	0.92 - 32.62	ND	
Aflatoxin B2	2.48 - 32.11	ND	
Aflatoxin G1	1.05 - 32.33	ND	
Aflatoxin G2	1.27 - 32.21	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


PREPARED BY / DATE
Sam Smith
21Oct2022
10:29:00 AM MDT


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

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Pesticides

Test ID: T000224700

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	251 - 2634	ND		Malathion	288 - 2733	ND
Acephate	35 - 2752	ND		Metalaxyl	40 - 2748	ND
Acetamiprid	36 - 2688	ND		Methiocarb	42 - 2801	ND
Azoxystrobin	40 - 2741	ND		Methomyl	34 - 2705	ND
Bifenazate	38 - 2718	ND		MGK 264 1	144 - 1597	ND
Boscalid	41 - 2823	ND		MGK 264 2	113 - 1138	ND
Carbaryl	40 - 2721	ND		Myclobutanil	45 - 2760	ND
Carbofuran	41 - 2709	ND		Naled	47 - 2735	ND
Chlorantraniliprole	43 - 2763	ND		Oxamyl	38 - 2691	ND
Chlorpyrifos	56 - 2830	ND		Paclobutrazol	43 - 2705	ND
Clofentezine	279 - 2735	ND		Permethrin	282 - 2780	ND
Diazinon	277 - 2745	ND		Phosmet	42 - 2720	ND
Dichlorvos	258 - 2688	ND		Prophos	287 - 2746	ND
Dimethoate	37 - 2672	ND		Propoxur	40 - 2714	ND
E-Fenpyroximate	283 - 2752	ND		Pyridaben	289 - 2762	ND
Etofenprox	42 - 2757	ND		Spinosad A	30 - 2259	ND
Etoxazole	288 - 2732	ND		Spinosad D	43 - 500	ND
Fenoxycarb	45 - 2766	ND		Spiromesifen	270 - 2789	ND
Fipronil	58 - 2756	ND		Spirotetramat	260 - 2788	ND
Flonicamid	39 - 2707	ND		Spiroxamine 1	16 - 1183	ND
Fludioxonil	286 - 2787	ND		Spiroxamine 2	20 - 1603	ND
Hexythiazox	39 - 2786	ND		Tebuconazole	294 - 2729	ND
Imazalil	259 - 2800	ND		Thiacloprid	36 - 2683	ND
Imidacloprid	42 - 2697	ND		Thiamethoxam	40 - 2711	ND
Kresoxim-methyl	17 - 2783	ND		Trifloxystrobin	41 - 2738	ND

Final Approval


Sam Smith
26Oct2022
11:01:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
26Oct2022
11:05:00 AM MDT
APPROVED BY / DATE

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Heavy Metals

Test ID: T000224702
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.11	ND	
Cadmium	0.04 - 4.24	ND	
Mercury	0.04 - 4.39	ND	
Lead	0.04 - 4.48	ND	

Final Approval


Sam Smith
27Oct2022
11:00:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
27Oct2022
11:03:00 AM MDT
APPROVED BY / DATE

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Denver, CO US 80202

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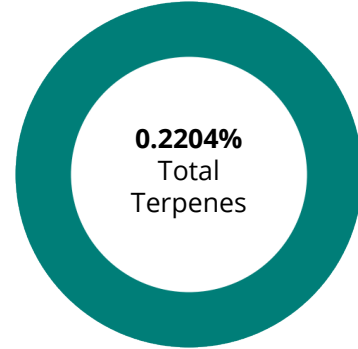
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Terpenes

Test ID: T000224699

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.2204	2.204
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	0.2204	2.2040



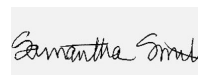
PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.2204
beta-Myrcene	0.0000
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.0000

Notes

Final Approval


PREPARED BY / DATE
Colin Hendrickson
27Oct2022
02:16:00 PM MDT


APPROVED BY / DATE
Sam Smith
27Oct2022
02:17:00 PM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/07939f30-a4c9-4c3d-beb2-2514f0a466fb>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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