

Prepared for:

Cultivated CBD

22 N 5th St
Minneapolis, MN US 55403

5mg Cranberry

Batch ID or Lot Number: 230705.3	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 17Jul2023	Started: 10Jul2023	Received: 10Jul2023	


Cannabinoids


Test ID: T000245975

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.159	0.510	ND	ND	# of Servings = 1, Sample Weight=354g
Cannabichromenic Acid (CBCA)	0.145	0.466	ND	ND	
Cannabidiol (CBD)	0.438	1.339	ND	ND	
Cannabidiolic Acid (CBDA)	0.449	1.373	ND	ND	
Cannabidivarin (CBDV)	0.104	0.317	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.187	0.573	ND	ND	
Cannabigerol (CBG)	0.090	0.289	ND	ND	
Cannabigerolic Acid (CBGA)	0.377	1.210	ND	ND	
Cannabinol (CBN)	0.118	0.378	ND	ND	
Cannabinolic Acid (CBNA)	0.257	0.825	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.449	1.441	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.408	1.309	4.862	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.361	1.160	ND	ND	
Tetrahydrocannabivarin (THCV)	0.082	0.263	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.319	1.023	ND	ND	
Total Cannabinoids			4.862	0.00	
Total Potential THC			4.862	0.00	
Total Potential CBD			ND	ND	

Final Approval


 Sam Smith
 17Jul2023
 12:06:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 17Jul2023
 12:18:00 PM MDT
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Residual Solvents

Test ID: T000245928


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1854	ND	
Butanes (Isobutane, n-Butane)	182 - 3635	ND	
Methanol	54 - 1078	ND	
Pentane	90 - 1792	ND	
Ethanol	94 - 1880	ND	
Acetone	88 - 1770	ND	
Isopropyl Alcohol	94 - 1876	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	90 - 1793	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	94 - 1890	ND	
Toluene	17 - 336	ND	
Xylenes (m,p,o-Xylenes)	126 - 2523	ND	

Final Approval

 Sam Smith
17Jul2023
07:41:00 AM MDT

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 Karen Winternheimer
17Jul2023
07:46:00 AM MDT

APPROVED BY / DATE

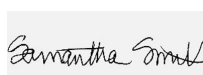
Heavy Metals

Test ID: T000245857


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.40	ND	
Cadmium	0.05 - 4.54	ND	
Mercury	0.05 - 4.70	ND	
Lead	0.05 - 4.91	ND	

Final Approval

 Sam Smith
17Jul2023
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 Karen Winternheimer
17Jul2023
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Microbial Contaminants


Test ID: T000245941

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
 17Jul2023
 02:38:00 PM MDT
 PREPARED BY / DATE


 Brett Hudson
 17Jul2023
 04:07:00 PM MDT
 APPROVED BY / DATE

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Pesticides


Test ID: T000245714

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	324 - 2708	ND		Malathion	284 - 2734	ND
Acephate	42 - 2749	ND		Metalaxyl	40 - 2728	ND
Acetamiprid	42 - 2736	ND		Methiocarb	43 - 2696	ND
Azoxystrobin	42 - 2732	ND		Methomyl	40 - 2755	ND
Bifenazate	36 - 2734	ND		MGK 264 1	170 - 1682	ND
Boscalid	41 - 2633	ND		MGK 264 2	116 - 1089	ND
Carbaryl	42 - 2725	ND		Myclobutanil	49 - 2712	ND
Carbofuran	40 - 2721	ND		Naled	48 - 2769	ND
Chlorantraniliprole	43 - 2679	ND		Oxamyl	43 - 2761	ND
Chlorpyrifos	48 - 2707	ND		Paclobutrazol	43 - 2723	ND
Clofentezine	295 - 2728	ND		Permethrin	268 - 2709	ND
Diazinon	269 - 2743	ND		Phosmet	41 - 2716	ND
Dichlorvos	285 - 2773	ND		Prophos	294 - 2657	ND
Dimethoate	43 - 2725	ND		Propoxur	41 - 2732	ND
E-Fenpyroximate	288 - 2730	ND		Pyridaben	304 - 2699	ND
Etofenprox	42 - 2687	ND		Spinosad A	31 - 2094	ND
Etoazole	312 - 2668	ND		Spinosad D	66 - 658	ND
Fenoxycarb	21 - 2754	ND		Spiromesifen	286 - 2701	ND
Fipronil	62 - 2678	ND		Spirotetramat	266 - 2795	ND
Flonicamid	40 - 2782	ND		Spiroxamine 1	15 - 1217	ND
Fludioxonil	283 - 2660	ND		Spiroxamine 2	26 - 1496	ND
Hexythiazox	42 - 2695	ND		Tebuconazole	261 - 2748	ND
Imazalil	269 - 2767	ND		Thiacloprid	43 - 2712	ND
Imidacloprid	44 - 2811	ND		Thiamethoxam	41 - 2774	ND
Kresoxim-methyl	21 - 2779	ND		Trifloxystrobin	42 - 2718	ND

Final Approval

 Karen Winternheimer
17Jul2023
04:36:00 PM MDT
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 Sam Smith
17Jul2023
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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.

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