botanacor

CERTIFICATE OF ANALYSIS

Prepared for:
Hemp House
719 W 26th St
Minneapolis, MN USA 55405

5MG Berry Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
E22D203-BG9	Various	Unit	
Reported:	Started:	Received:	
02Aug2022	01Aug2022	29Jul2022	

Heavy Metals

Test ID: T000216222
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.29	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.04 - 4.45	ND	
Lead	0.04 - 4.42	ND	

Final Approval

Daniel Weidensaul
02Aug2022
02:45:00 PM MDT
PREPARED BY / DATE

Courtney Richards
02Aug2022
03:28:00 PM MDT
APPROVED BY / DATE

Microbial Contaminants

Test ID: T000216221
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	**LOD**	**Quantitation Range**	**Result**	**Notes**
STEC	TM25: PCR	10^0 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/g	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
04Aug2022
05:06:00 PM MDT
PREPARED BY / DATE

Courtney Richards
04Aug2022
05:14:00 PM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000216220
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	340 - 2663	ND	Malathion	285 - 2727	ND
Acephate	38 - 2787	ND	Metalaxyl	43 - 2764	ND
Acetamiprid	39 - 2816	ND	Methiocarb	38 - 2856	ND
Azoxystrobin	42 - 2725	ND	Methomyl	37 - 2787	ND
Bifenazate	40 - 2729	ND	MGK 264 1	166 - 1638	ND
Boscalid	39 - 2838	ND	MGK 264 2	111 - 1136	ND
Carbaryl	41 - 2716	ND	Myclobutanil	46 - 2882	ND
Carbofuran	39 - 2720	ND	Naled	51 - 2736	ND
Chlorantraniliprole	47 - 2896	ND	Oxamyl	39 - 2771	ND
Chlorpyrifos	43 - 2799	ND	Paclobutrazol	44 - 2724	ND
Clofentezine	292 - 2745	ND	Permethrin	260 - 2715	ND
Diazinon	287 - 2731	ND	Phosmet	40 - 2755	ND
Dichlorvos	271 - 2820	ND	Prophos	282 - 2874	ND
Dimethoate	39 - 2773	ND	Propoxur	39 - 2708	ND
E-Fenpyroximate	304 - 2742	ND	Pyridaben	315 - 2721	ND
Etofenprox	44 - 2721	ND	Spinosad A	34 - 2250	ND
Etoxazole	301 - 2692	ND	Spinosad D	51 - 499	ND
Fenoxycarb	40 - 2733	ND	Spiromesifen	242 - 2819	ND
Fipronil	51 - 2744	ND	Spirotetramat	276 - 2684	ND
Flonicamid	45 - 2772	ND	Spiroxamine 1	18 - 1214	ND
Fludioxonil	263 - 2886	ND	Spiroxamine 2	22 - 1633	ND
Hexythiazox	41 - 2751	ND	Tebuconazole	266 - 2742	ND
Imazalil	266 - 2785	ND	Thiacloprid	40 - 2754	ND
Imidacloprid	49 - 2752	ND	Thiamethoxam	42 - 2773	ND
Kresoxim-methyl	42 - 2790	ND	Trifloxystrobin	42 - 2732	ND

Final Approval

Daniel Weidensaul
04Aug2022
03:12:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
04Aug2022
03:14:00 PM MDT
APPROVED BY / DATE

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719 W 26th St
Minneapolis, MN USA 55405

5MG Berry Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 3
E22D203-BG9	Various	Unit	
Reported:	Started:	Received:	
02Aug2022	01Aug2022	29Jul2022	

Residual Solvents

Test ID: T000216223
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	84 - 1683	ND	
Butanes (Isobutane, n-Butane)	175 - 3504	ND	
Methanol	57 - 1149	ND	
Pentane	92 - 1848	ND	
Ethanol	86 - 1715	ND	
Acetone	94 - 1890	ND	
Isopropyl Alcohol	100 - 1991	ND	
Hexane	6 - 115	ND	
Ethyl Acetate	95 - 1903	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	95 - 1891	ND	
Toluene	17 - 347	ND	
Xylenes (m,p,o-Xylenes)	125 - 2501	ND	

Final Approval

Daniel Weidensaul
04Aug2022
05:57:00 PM MDT
PREPARED BY / DATE

Courtney Richards
05Aug2022
06:06:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/b1e7fbc9-82a1-46b1-988b-387f42e1ba85

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.

Cert #4329.02
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719 W 26th St
Minneapolis, MN USA 55405

5MG Berry Gummies

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 1
E22D203-BG9	Various	Unit	
Reported:	Started:	Received:	
27Jul2022	26Jul2022	25Jul2022	

Cannabinoids

Test ID: T000215544
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.334	0.869	ND	ND	# of Servings = 1, Sample Weight=3.286g
Cannabichromenic Acid (CBCA)	0.306	0.795	ND	ND	
Cannabidiol (CBD)	0.913	2.265	2.590	0.80	
Cannabidiolic Acid (CBDA)	0.936	2.323	ND	ND	
Cannabidivarin (CBDV)	0.216	0.536	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.390	0.969	ND	ND	
Cannabigerol (CBG)	0.190	0.493	ND	ND	
Cannabigerolic Acid (CBGA)	0.794	2.062	ND	ND	
Cannabinol (CBN)	0.248	0.643	ND	ND	
Cannabinolic Acid (CBNA)	0.542	1.407	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.946	2.456	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.859	2.231	5.280	1.60	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.761	1.977	ND	ND	
Tetrahydrocannabivarin (THCV)	0.173	0.449	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.671	1.743	ND	ND	
Total Cannabinoids			**7.870**	**2.39**	
Total Potential THC			5.280	1.61	
Total Potential CBD			2.590	0.79	

Final Approval

Kayla Phye
27Jul2022
03:50:00 PM MDT
PREPARED BY / DATE

Jacob Miller
27Jul2022
03:53:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6f7e0f4b-7d42-43c4-80ab-22d49ec7c119

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