



CERTIFICATE OF ANALYSIS

PRODUCED: OCT 30, 2023

SAMPLE: MAC SPLITTER (FLOWER) // CLIENT: MORGAN COUNTY FARMS // BATCH: **PASS**



BATCH NO.: 1A40C0300001A2D000000803
LOT NO.: 1A40C0300001A2D000000797
MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: GPA-231026-006
COLLECTED ON: OCT 26, 2023
RECEIVED ON: OCT 26, 2023
BATCH/SAMPLE SIZE: 4349.2 G / 22.1 G
RECEIVED BY: DAIN BURRIS

CANNABINOID OVERVIEW

TOTAL THC:	20.78 %
TOTAL CBD:	< LOQ %
TOTAL CANNABINOIDS:	25.6194 %

CULTIVATOR INFO

CULTIVATOR
BTMD HOLDINGS LLC

LICENSE
CUL000055
MEDICINAL - CULTIVATOR LICENSE

MANUFACTURER INFO

MANUFACTURER
BTMD HOLDINGS LLC
28580 HIGHWAY 5
GRAVOIS MILLS, MO 65037

LICENSE
MAN000011
MEDICINAL - MANUFACTURING
LICENSE

BATCH RESULT: **PASS**

POTENCY	TESTED	MYCOTOXINS	PASS
FOREIGN	PASS	PESTICIDES	PASS
METALS	PASS	TERPENES	TESTED
MICROBIAL	PASS	WATER	PASS
MOISTURE	PASS		

CANNABINOID PROFILE BY UPLC-UV // OCT 27, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	< LOQ	< LOQ	< LOQ	0.2100/0.6300	N/A	CBN		ND	ND	0.2600/0.8000	N/A
CBCA	0.2834 %	2.834 mg/g	2.834 mg/g	0.04000/0.1100	N/A	Δ^8 -THC		ND	ND	0.9700/2.950	N/A
CBD	< LOQ	< LOQ	< LOQ	0.6500/1.980	N/A	Δ^9 -THC	< LOQ	< LOQ	< LOQ	0.8800/2.650	N/A
CBDA	< LOQ	< LOQ	< LOQ	0.3500/1.070	N/A	THCA	23.69 %	236.9 mg/g	236.9 mg/g	0.05000/0.1400	N/A
CBDV	ND	ND	ND	0.3500/1.050	N/A	THCV		ND	ND	0.4100/1.240	N/A
CBDDVA	ND	ND	ND	0.2500/0.7600	N/A	THCVA	< LOQ	< LOQ	< LOQ	0.7400/2.240	N/A
CBG	< LOQ	< LOQ	< LOQ	0.5000/1.520	N/A	TOTAL THC**	20.78 %	207.8 mg/g	207.8 mg/g		N/A
CBGA	1.646 %	16.46 mg/g	16.46 mg/g	0.4100/1.240	N/A	TOTAL CBD**	< LOQ	< LOQ	< LOQ		N/A

** TOTAL CBD = (CBDA X 0.877) + CBD

** TOTAL THC = (THCA X 0.877) + THC
 DRY-WEIGHT AMOUNTS SHOWN

MOISTURE CONTENT BY MOISTURE BALANCE // OCT 27, 2023

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE	5 - 15 %	10.37	PASS

WATER ACTIVITY BY HYGROMETER // OCT 27, 2023

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.5400	PASS



RESULTS CERTIFIED BY: CULLEN MILLER
 LABORATORY DIRECTOR, GREEN PRECISION ANALYTICS
 OCT 30, 2023

Cullen J Miller

TERPENES TESTING BY GC-MS/MS // OCT 28, 2023

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.306 %	13.06 mg/g		N/A
β-CARYOPHYLLENE	0.2941 %	2.941 mg/g	0.008000/0.02500	N/A
TERPINOLENE	0.2772 %	2.772 mg/g	0.01600/0.04900	N/A
β-PINENE	0.1008 %	1.008 mg/g	0.01700/0.05100	N/A
D-LIMONENE	0.09203 %	0.9203 mg/g	0.01800/0.05400	N/A
α-HUMULENE	0.09169 %	0.9169 mg/g	0.01300/0.04100	N/A
α-BISABOLOL	0.08715 %	0.8715 mg/g	0.007000/0.02200	N/A
LINALOOL	0.07358 %	0.7358 mg/g	0.01700/0.05000	N/A
β-MYRCENE	0.07147 %	0.7147 mg/g	0.01700/0.05100	N/A
NEROLIDOL 2	0.06131 %	0.6131 mg/g	0.004000/0.01300	N/A
α-PINENE	0.05984 %	0.5984 mg/g	0.01800/0.05400	N/A

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
Δ ³ -CARENE	0.03253 %	0.3253 mg/g	0.007000/0.02100	N/A
ISOPULEGOL	0.01446 %	0.1446 mg/g	0.007000/0.02300	N/A
GUAIOL	0.01333 %	0.1333 mg/g	0.009000/0.02800	N/A
GERANIOL	0.01313 %	0.1313 mg/g	0.01100/0.03400	N/A
NEROLIDOL 1	0.01201 %	0.1201 mg/g	0.01300/0.03900	N/A
γ-TERPINENE	0.01095 %	0.1095 mg/g	0.009000/0.02700	N/A
α-TERPINENE	ND	ND	0.01700/0.05200	N/A
CAMPHERE	ND	ND	0.01800/0.05400	N/A
EUCALYPTOL	ND	ND	0.01600/0.05000	N/A
P-CYME	ND	ND	0.01600/0.05000	N/A

HEAVY METAL TESTING BY ICP-MS // OCT 28, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	0.04002	0.0005000/0.001000	PASS
CADMIUM	0.2 µg/g	0.01405	0.0005000/0.001000	PASS
CHROMIUM	0.6 µg/g	0.05002	0.0005000/0.001000	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
LEAD	0.5 µg/g	0.005934	0.0005000/0.001000	PASS
MERCURY	0.1 µg/g	0.002426	0.0001000/0.0002000	PASS

MICROBIAL ANALYSIS BY QPCR // OCT 29, 2023

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS SPP.	Any amt in 1 gram	ND	PASS
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SHIGA TOXIN-PRODUCING E. COLI	Any amt in 1 gram	ND	PASS

FOREIGN MATTER TESTING BY MICROSCOPY // OCT 27, 2023

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
FOREIGN MATTER	2 %	ND	PASS

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
STEMS	5 %	ND	PASS

MYCOTOXIN TESTING BY LC-MS/MS // OCT 29, 2023

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	1.420/4.300	N/A
AFLATOXIN B2		ND	1.270/3.850	N/A
AFLATOXIN G1		ND	1.730/5.240	N/A

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN G2		ND	1.380/4.180	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	3.620/10.98	PASS



PESTICIDE TESTING BY LC-MS/MS // OCT 29, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	0.03691/0.1119	PASS	IMIDACLOPRID	0.4 µg/g	ND	0.01518/0.04599	PASS
ACEPHATE	0.4 µg/g	ND	0.02088/0.06328	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	0.01845/0.05592	PASS
ACEQUINOCYL	2 µg/g	ND	0.03553/0.1077	PASS	MALATHION	0.2 µg/g	ND	0.01412/0.04278	PASS
ACETAMIPRID	0.2 µg/g	ND	0.009370/0.02838	PASS	METALAXYL	0.2 µg/g	ND	0.008100/0.02454	PASS
ALDICARB	0.4 µg/g	ND	0.03054/0.09256	PASS	METHIOCARB	0.2 µg/g	ND	0.009680/0.02934	PASS
AZOXYSTROBIN	0.2 µg/g	ND	0.02597/0.07870	PASS	METHOMYL	0.4 µg/g	ND	0.007170/0.02172	PASS
BIFENAZATE	0.2 µg/g	ND	0.01462/0.04430	PASS	METHYL PARATHION	0.2 µg/g	ND	0.04763/0.1443	PASS
BIFENTHRIN	0.2 µg/g	ND	0.04703/0.1425	PASS	MGK-264	0.2 µg/g	ND	0.02658/0.08055	PASS
BOSCALID	0.4 µg/g	ND	0.02658/0.08055	PASS	MYCLOBUTANIL	0.2 µg/g	ND	0.01239/0.03755	PASS
CARBARYL	0.2 µg/g	ND	0.009920/0.03005	PASS	NALED	0.5 µg/g	ND	0.01773/0.05372	PASS
CARBOFURAN	0.2 µg/g	ND	0.008910/0.02700	PASS	OXAMYL	1 µg/g	ND	0.01032/0.03128	PASS
CHLORANTRANILIPROLE	0.2 µg/g	ND	0.01000/0.02000	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	0.01293/0.03917	PASS
CHLORFENAPYR	1 µg/g	ND	0.06244/0.1892	PASS	PERMETHRIN	0.2 µg/g	ND	0.05361/0.1625	PASS
CHLORMEQUAT CL	0.2 µg/g	ND	0.006510/0.01974	PASS	PHOSMET	0.2 µg/g	ND	0.01072/0.03249	PASS
CHLORPYRIFOS	0.2 µg/g	ND	0.01772/0.05371	PASS	PIPERONYLBUTOXIDE	2 µg/g	ND	0.01549/0.04694	PASS
CLOFENTEZINE	0.2 µg/g	ND	0.02230/0.06756	PASS	PRALLETHRIN	0.2 µg/g	ND	0.02359/0.07149	PASS
CYFLUTHRIN	1 µg/g	ND	0.07465/0.2262	PASS	PROPICONAZOLE	0.4 µg/g	ND	0.01497/0.04536	PASS
CYPERMETHRIN	1 µg/g	ND	0.03344/0.1013	PASS	PROPOXUR	0.2 µg/g	ND	0.01071/0.03244	PASS
DAMINOZIDE	1 µg/g	ND	0.01702/0.05158	PASS	PYRETHRINS	1 µg/g	ND		PASS
DIAZINON	0.2 µg/g	ND	0.02114/0.06407	PASS	PYRETHRINS PYRETHRIN I		ND	0.01683/0.05100	N/A
DICHLORVOS	1 µg/g	ND	0.02094/0.06345	PASS	PYRETHRINS PYRETHRIN II		ND	0.02930/0.08878	N/A
DIMETHOATE	0.2 µg/g	ND	0.01062/0.03219	PASS	PYRIDABEN	0.2 µg/g	ND	0.01780/0.05393	PASS
ETHOPROPHOS	0.2 µg/g	ND	0.007760/0.02352	PASS	SPINOSAD	0.2 µg/g	ND		PASS
ETOFENPROX	0.4 µg/g	ND	0.01958/0.05932	PASS	SPINOSAD A		ND	0.03196/0.09686	N/A
ETOXAZOLE	0.2 µg/g	ND	0.009670/0.02931	PASS	SPINOSAD D		ND	0.03877/0.1175	N/A
FENOXYCARB	0.2 µg/g	ND	0.009740/0.02950	PASS	SPIROMESIFEN	0.2 µg/g	ND	0.01725/0.05226	PASS
FENPYROXIMATE	0.4 µg/g	ND	0.02431/0.07366	PASS	SPIROTETRAMAT	0.2 µg/g	ND	0.01591/0.04822	PASS
FIPRONIL	0.4 µg/g	ND	0.03877/0.1175	PASS	SPIROXAMINE	0.4 µg/g	ND	0.01024/0.03104	PASS
FLONICAMID	1 µg/g	ND	0.02196/0.06655	PASS	TEBUCONAZOLE	0.4 µg/g	ND	0.009000/0.02728	PASS
FLUDIOXONIL	0.4 µg/g	ND	0.08335/0.2526	PASS	THIACLOPRID	0.2 µg/g	ND	0.007530/0.02283	PASS
HEXYTHIAZOX	1 µg/g	ND	0.01474/0.04466	PASS	THIAMETHOXAM	0.4 µg/g	ND	0.007600/0.02303	PASS
IMAZALIL	0.2 µg/g	ND	0.008850/0.02681	PASS	TRIFLOXYSTROBIN	0.2 µg/g	ND	0.02527/0.07657	PASS

ACCREDITATIONS



CERT # 6318.01

ISO/IEC
17025:2017

A2LA ACCREDITED

PESTICIDE TESTING BY LC-MS/MS

ABAMECTIN, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORMEQUAT CL, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MGK-264, MALATHION, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PHOSMET, PIPERONYLBUTOXIDE, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS PYRETHRIN I, PYRETHRINS PYRETHRIN II, PYRIDABEN, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

TERPENES TESTING BY GC-MS/MS

CAMPHENE, CARYOPHYLLENE OXIDE, DELTA-3-CARENE, EUCALYPTOL, GERANIOL, GUAJOL, ISOPULEGOL, LINALOOL, NEROLIDOL, NEROLIDOL 1, NEROLIDOL 2, OCIMENE 1, OCIMENE 2, TERPINOLENE, TOTAL TERPENES, ALPHA-BISABOLOL, ALPHA-HUMULENE, ALPHA-PINENE, ALPHA-TERPINENE, BETA-CARYOPHYLLENE, BETA-MYRCENE, BETA-PINENE, D-LIMONENE, GAMMA-TERPINENE, P-CYMENE

CANNABINOID PROFILE BY UPLC-UV

CBC, CBCA, CBD, CBDA, CBDV, CBDVA, CBG, CBGA, CBN, DELTA-8-THC, DELTA-9-THC, THCA, THCV, THCVA, TOTAL CBD, TOTAL THC

MICROBIAL ANALYSIS BY QPCR

ASPERGILLUS SPP., ESCHERICHIA COLI, SALMONELLA SPP., SHIGA TOXIN-PRODUCING E. COLI

MYCOTOXIN TESTING BY LC-MS/MS

AFLATOXIN B1, AFLATOXIN B2, AFLATOXIN G1, AFLATOXIN G2, AFLATOXINS, OCHRATOXIN A

HEAVY METAL TESTING BY ICP-MS

ARSENIC, CADMIUM, CHROMIUM, LEAD, MERCURY

FOREIGN MATTER TESTING BY MICROSCOPY

FOREIGN MATTER, STEMS

WATER ACTIVITY BY HYGROMETER

WATER ACTIVITY

MOISTURE CONTENT BY MOISTURE BALANCE

MOISTURE

