



CERTIFICATE OF ANALYSIS

PRODUCED: SEP 06, 2023

SAMPLE: SOUR MAC 5_1GRAM_RAW PREROLL (PRE-ROLL) // CLIENT: MORGAN COUNTY FARMS // BATCH: PASS



BATCH NO.: 1A40C010000264A000000928
LOT NO.: 1A40C010000264A000000927
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: GPA-230831-014
COLLECTED ON: AUG 31, 2023
RECEIVED ON: AUG 31, 2023
BATCH/SAMPLE SIZE: 879 UNITS / 13 UNITS
RECEIVED BY: DAIN BURRIS
PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	17.62 %
TOTAL CBD:	0.000 %
TOTAL CANNABINOIDS:	21.20119 %

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	SOLVENTS	PASS
MICROBIAL	PASS	WATER	PASS
MOISTURE	PASS		

CANNABINOID PROFILE BY UPLC-UV // SEP 03, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.09349 %	0.9349 mg/g	0.2100/0.6300	N/A		Δ^9 -THC	1.561 %	15.61 mg/g	0.8800/2.650	N/A	
CBCA	0.2277 %	2.277 mg/g	0.04000/0.1100	N/A		THCA	18.31 %	183.1 mg/g	0.05000/0.1400	N/A	
CBD	ND	ND	0.6500/1.980	N/A		THCV	< LOQ	< LOQ	0.4100/1.240	N/A	
CBDA	ND	ND	0.3500/1.070	N/A		THCVA	0.3868 %	3.868 mg/g	0.7400/2.240	N/A	
CBDV	ND	ND	0.3500/1.050	N/A		TOTAL THC**	17.62 %	176.2 mg/g		N/A	
CBDVA	ND	ND	0.2500/0.7600	N/A		TOTAL CBD**	ND	ND		N/A	
CBG	< LOQ	< LOQ	0.5000/1.520	N/A		CBD/PKG	ND	ND		N/A	
CBGA	0.6222 %	6.222 mg/g	0.4100/1.240	N/A		Δ^9 -THC/PKG	15.61 mg			N/A	
CBN	< LOQ	< LOQ	0.2600/0.8000	N/A		TOTAL THC/PKG**	176.2 mg			N/A	
Δ^8 -THC	ND	ND	0.9700/2.950	N/A		TOTAL CBD/PKG**	ND			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 // SEP 01, 2023

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE	5 - 15 %	12.29	PASS

WATER ACTIVITY BY HYGROMETER // SEP 01, 2023

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.5000	PASS



RESULTS CERTIFIED BY: CULLEN MILLER
 LABORATORY DIRECTOR, GREEN PRECISION ANALYTICS
 SEP 06, 2023

Cullen J. Miller

HEAVY METAL TESTING BY ICP-MS // SEP 06, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	0.01001	0.0005000/0.001000	PASS
CADMIUM	0.2 µg/g	0.01921	0.0005000/0.001000	PASS
CHROMIUM	0.6 µg/g	0.3182	0.0005000/0.001000	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
LEAD	0.5 µg/g	0.005254	0.0005000/0.001000	PASS
MERCURY	0.1 µg/g	0.003457	0.0001000/0.0002000	PASS

MICROBIAL ANALYSIS BY QPCR // SEP 05, 2023

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

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

FOREIGN MATTER TESTING BY MICROSCOPY // SEP 01, 2023

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

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

RESIDUAL SOLVENTS TESTING BY GC-MS/MS // SEP 05, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	2 µg/g	ND	0.1130/0.3410	PASS
ACETONE	750 µg/g	16.62	1.667/5.053	PASS
ACETONITRILE	60 µg/g	ND	7.143/21.65	PASS
BENZENE	1 µg/g	ND	0.04200/0.1260	PASS
BUTANE	800 µg/g	ND	3.468/10.51	PASS
CHLOROFORM	2 µg/g	ND	0.1820/0.5520	PASS
ETHANOL	1000 µg/g	ND	2.964/8.982	PASS
ETHYL ACETATE	400 µg/g	ND	2.218/6.722	PASS
ETHYLENE OXIDE	5 µg/g	ND	0.3170/0.9610	PASS
ETHYL ETHER	500 µg/g	ND	2.416/7.320	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
HEPTANE	500 µg/g	ND	2.304/6.982	PASS
HEXANE	50 µg/g	ND	3.201/9.701	PASS
ISOPROPYL ALCOHOL	500 µg/g	43.80	3.626/10.99	PASS
METHANOL	250 µg/g	114.7	5.557/16.84	PASS
METHYLENE CHLORIDE	125 µg/g	ND	0.03400/0.1030	PASS
PENTANE	750 µg/g	ND	2.916/8.836	PASS
PROPANE	2100 µg/g	ND	4.097/12.42	PASS
TOLUENE	150 µg/g	ND	3.050/9.241	PASS
TRICHLOROETHYLENE	25 µg/g	ND	0.05400/0.1640	PASS
TOTAL XYLENES	150 µg/g	ND	7.478/22.66	PASS

MYCOTOXIN TESTING BY LC-MS/MS // SEP 02, 2023

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	2.000/4.000	N/A
AFLATOXIN B2		ND	2.000/4.000	N/A
AFLATOXIN G1		ND	2.000/4.000	N/A

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN G2		ND	2.000/4.000	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	2.000/4.000	PASS



PESTICIDE TESTING BY LC-MS/MS // SEP 02, 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	0.02057/0.06234	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	TETRACONAZOLE	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, DICHLORVOS, DIAZINON, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MALATHION, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MGK-264, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PRALLETHRIN, PHOSMET, PIPERONYLBUTOXIDE, PROPICONAZOLE, PROPOXUR, PYRIDABEN, PYRETHRINS, PYRETHRINS PYRETHRIN I, PYRETHRINS PYRETHRIN II, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TETRACONAZOLE, THIACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

RESIDUAL SOLVENTS TESTING BY GC-MS/MS

1,1-DICHLOROETHANE, 1,2-DICHLOROETHANE, ACETONE, ACETONITRILE, BENZENE, BUTANE, BUTANES, CHLOROFORM, ETHANOL, ETHYL ACETATE, ETHYL ETHER, ETHYLENE OXIDE, HEPTANE, HEXANE, HEXANES, ISOPROPYL ALCOHOL, METHANOL, METHYLENE CHLORIDE, PENTANE, PENTANES, PROPANE, TOLUENE, TRICHLOROETHYLENE, TOTAL XYLENES

CANNABINOID PROFILE BY UPLC-UV

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

MICROBIAL ANALYSIS BY QPCR

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

MYCOTOXIN TESTING BY LC-MS/MS

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

HEAVY METAL TESTING BY ICP-MS

ARSENIC, CADMIUM, LEAD, MERCURY, CHROMIUM

FOREIGN MATTER TESTING BY MICROSCOPY

FOREIGN MATTER, STEMS

WATER ACTIVITY BY HYGROMETER

WATER ACTIVITY

MOISTURE CONTENT BY MOISTURE BALANCE

MOISTURE

