



## CERTIFICATE OF ANALYSIS

PRODUCED: OCT 30, 2023

SAMPLE: MUSASHI (FLOWER) // CLIENT: MORGAN COUNTY FARMS // BATCH: PASS



**BATCH NO.:** 1A40C0300001A2D000000801  
**LOT NO.:** 1A40C0300001A2D000000793  
**MATRIX:** FLOWER  
**CATEGORY:** INHALABLE  
**SAMPLE ID:** GPA-231026-001  
**COLLECTED ON:** OCT 26, 2023  
**RECEIVED ON:** OCT 26, 2023  
**BATCH/SAMPLE SIZE:** 6802.5 G / 34.1 G  
**RECEIVED BY:** DAIN BURRIS

### CANNABINOID OVERVIEW

<b>TOTAL THC:</b>	<b>15.42 %</b>
<b>TOTAL CBD:</b>	<b>&lt; LOQ %</b>
<b>TOTAL CANNABINOIDS:</b>	<b>18.3746 %</b>

### 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

<b>POTENCY</b>	TESTED	<b>MYCOTOXINS</b>	PASS
<b>FOREIGN</b>	PASS	<b>PESTICIDES</b>	PASS
<b>METALS</b>	PASS	<b>TERPENES</b>	TESTED
<b>MICROBIAL</b>	PASS	<b>WATER</b>	PASS
<b>MOISTURE</b>	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	0.2140 %	2.140 mg/g	2.140 mg/g	0.04000/0.1100	N/A	$\Delta^8$ -THC		ND	ND	0.9700/2.950	N/A
CBD	ND	ND	ND	0.6500/1.980	N/A	$\Delta^9$ -THC	0.4109 %	4.109 mg/g	4.109 mg/g	0.8800/2.650	N/A
CBDA	< LOQ	< LOQ	< LOQ	0.3500/1.070	N/A	THCA	17.11 %	171.1 mg/g	171.1 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
CBDVA	ND	ND	ND	0.2500/0.7600	N/A	THCVA		ND	ND	0.7400/2.240	N/A
CBG	< LOQ	< LOQ	< LOQ	0.5000/1.520	N/A	<b>TOTAL THC**</b>	15.42 %	154.2 mg/g	154.2 mg/g		N/A
CBGA	0.6397 %	6.397 mg/g	6.397 mg/g	0.4100/1.240	N/A	<b>TOTAL CBD**</b>	< 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 %	12.14	PASS

### WATER ACTIVITY BY HYGROMETER // OCT 27, 2023

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.5700	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	1.090 %	10.90 mg/g		N/A
β-CARYOPHYLLENE	0.4504 %	4.504 mg/g	0.008000/0.02500	N/A
D-LIMONENE	0.1463 %	1.463 mg/g	0.01800/0.05400	N/A
NEROLIDOL 2	0.1112 %	1.112 mg/g	0.004000/0.01300	N/A
LINALOOL	0.08380 %	0.8380 mg/g	0.01700/0.05000	N/A
α-HUMULENE	0.07026 %	0.7026 mg/g	0.01300/0.04100	N/A
α-BISABOLOL	0.06140 %	0.6140 mg/g	0.007000/0.02200	N/A
β-MYRCENE	0.05314 %	0.5314 mg/g	0.01700/0.05100	N/A
β-PINENE	0.05101 %	0.5101 mg/g	0.01700/0.05100	N/A
α-PINENE	0.02416 %	0.2416 mg/g	0.01800/0.05400	N/A
GUAIOL	0.01441 %	0.1441 mg/g	0.009000/0.02800	N/A

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
NEROLIDOL 1	0.01196 %	0.1196 mg/g	0.01300/0.03900	N/A
ISOPULEGOL	0.01147 %	0.1147 mg/g	0.007000/0.02300	N/A
α-TERPINENE	ND	ND	0.01700/0.05200	N/A
CAMPHERE	ND	ND	0.01800/0.05400	N/A
Δ <sup>3</sup> -CARENE	ND	ND	0.007000/0.02100	N/A
EUCALYPTOL	ND	ND	0.01600/0.05000	N/A
γ-TERPINENE	ND	ND	0.009000/0.02700	N/A
GERANIOL	ND	ND	0.01100/0.03400	N/A
P-CYMENE	ND	ND	0.01600/0.05000	N/A
TERPINOLENE	ND	ND	0.01600/0.04900	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	0.04191	0.0005000/0.001000	PASS
CADMIUM	0.2 µg/g	0.01665	0.0005000/0.001000	PASS
CHROMIUM	0.6 µg/g	0.03500	0.0005000/0.001000	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
LEAD	0.5 µg/g	0.03704	0.0005000/0.001000	PASS
MERCURY	0.1 µg/g	0.003911	0.0001000/0.0002000	PASS

## MICROBIAL ANALYSIS BY QPCR // OCT 29, 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 // 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	0.02057/0.06234	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	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

