



## CERTIFICATE OF ANALYSIS

PRODUCED: SEP 11, 2023

SAMPLE: GRANDPA'S COOKIES (FLOWER) // CLIENT: MORGAN COUNTY FARMS // BATCH: PASS



**BATCH NO.:** 1A40C0300001A2D000000541  
**LOT NO.:** 1A40C0300001A2D000000538  
**MATRIX:** FLOWER  
**CATEGORY:** INHALABLE  
**SAMPLE ID:** GPA-230907-002  
**COLLECTED ON:** SEP 07, 2023  
**RECEIVED ON:** SEP 07, 2023  
**BATCH/SAMPLE SIZE:** 4794.9 G / 32 G

### CANNABINOID OVERVIEW

<b>TOTAL THC:</b>	<b>18.09 %</b>
<b>TOTAL CBD:</b>	<b>&lt; LOQ %</b>
<b>TOTAL CANNABINOIDS:</b>	<b>21.1434 %</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>MOISTURE</b>	PASS
<b>FOREIGN</b>	PASS	<b>MYCOTOXINS</b>	PASS
<b>METALS</b>	PASS	<b>PESTICIDES</b>	PASS
<b>MICROBIAL</b>	PASS	<b>WATER</b>	PASS

### CANNABINOID PROFILE BY UPLC-UV // SEP 11, 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	0.1497 %	1.497 mg/g	1.497 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	< LOQ	< LOQ	< LOQ	0.8800/2.650	N/A
CBDA	< LOQ	< LOQ	< LOQ	0.3500/1.070	N/A	THCA	20.63 %	206.3 mg/g	206.3 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	<b>TOTAL THC**</b>	18.09 %	180.9 mg/g	180.9 mg/g		N/A
CBGA	0.3637 %	3.637 mg/g	3.637 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 // SEP 08, 2023

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE	5 - 15 %	9.810	PASS

### WATER ACTIVITY BY HYGROMETER // SEP 08, 2023

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.4600	PASS



RESULTS CERTIFIED BY: CULLEN MILLER  
 LABORATORY DIRECTOR, GREEN PRECISION ANALYTICS  
 SEP 11, 2023

*Cullen J. Miller*

## HEAVY METAL TESTING BY ICP-MS // SEP 11, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	0.02893	0.0005000/0.001000	PASS
CADMIUM	0.2 µg/g	0.008541	0.0005000/0.001000	PASS
CHROMIUM	0.6 µg/g	0.02029	0.0005000/0.001000	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
LEAD	0.5 µg/g	0.007400	0.0005000/0.001000	PASS
MERCURY	0.1 µg/g	0.001942	0.0001000/0.0002000	PASS

## MICROBIAL ANALYSIS BY QPCR // SEP 11, 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 // SEP 08, 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 // SEP 11, 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 11, 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

#### 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

