



# Certificate of Analysis

Sample: M001221034-001  
Harvest/Lot ID: BF001GG120320500S  
Seed to Sale #N/A  
Batch Date : 12/03/20  
Batch#: BF001GG120320500S  
Sample Size Received: 60 ml  
Retail Product Size: 60  
Ordered : 12/15/20  
Sampled : 12/15/20  
Completed: 12/29/20 Expires: 12/29/21  
Sampling Method: SOP Client Method

Dec 29, 2020 | UNEEK Botanicals

160 Industrial Dr  
Attalla, AL, 35954, US



**PASSED**

Page 1 of 5

### PRODUCT IMAGE SAFETY RESULTS

Pesticides  
**PASSED**

Heavy Metals  
**PASSED**

Microbials  
**PASSED**

Mycotoxins  
**PASSED**

Residuals Solvents  
**PASSED**

Filtration  
**PASSED**

Water Activity  
NOT TESTED

Moisture  
NOT TESTED

Terpenes  
**TESTED**

MISC.

### CANNABINOID RESULTS

**Total THC**  
**0.024%**

**Total CBD**  
**0.954%**

**Total Cannabinoids**  
**1.033%**

Parameter	Value	LOD
D9-THC	0.024%	0.0001
THCA	ND	0.001
CBD	0.886%	0.0001
CBDA	0.078%	0.001
D8-THC	ND	0.001
THCV	ND	0.001
CBN	ND	0.001
CBDV	ND	0.001
CBC	0.027%	0.001
CBG	0.018%	0.001
CBGA	ND	0.001

**Filtration PASSED**

Analyzed By	Weight	Extraction date	Extracted By
564	1 g	12/22/20	564
Analyte			LOD
Filtration and Foreign Material			0.3
Analysis Method -SOP.T.40.013	Batch Date : 12/22/20 10:15:50		Result
Analytical Batch -M0001574FIL	Reviewed On - 12/22/20 11:40:42		ND
Instrument Used : Microscope			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.

### Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
19	1.5789g	NA	NA
Analysis Method -SOP.T.40.020, SOP.T.30.050	Reviewed On - 12/29/20 09:32:34	Batch Date : 12/22/20 15:11:27	
Analytical Batch -M0001576POT	Instrument Used : HPLC Potency Analyzer		

Reagent	Dilution	Consums. ID
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L). Measurement of Uncertainty: 2.7%		

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**David Greene**  
Lab Director  
State License # 19-05-02P  
ISO Accreditation # .

*[Signature]*  
Signature

01/04/2021  
Signed On



# Certificate of Analysis

**PASSED**

**UNEEK Botanicals**

160 Industrial Dr  
Attalla, AL, 35954, US  
Telephone: 205-490-8043  
Email:  
customerservice@uneekbotanicals.com

**Sample : MO01221034-001**  
**Harvest/LOT ID: BF001GG120320500S**  
**Batch# :** BF001GG120320500S  
**Sample Size Received :** 60 ml  
**Completed :** 12/29/20 **Expires:** 12/29/21  
**Sample Method :** SOP Client Method  
**Ordered :** 12/15/20

**Page 2 of 5**

## Terpenes

TESTED

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-PHELLANDRENE	0.005	%	ND	CIS-NEROLIDOL	0.005	%	ND
FENCHONE	0.01	%	ND	3-CARENE	0.005	%	ND
GAMMA-TERPINENE	0.005	%	ND	FENCHYL ALCOHOL	0.005	%	ND
GERANIOL	0.005	%	ND	HEXAHYDROT HYMOL	0.005	%	0.124
GERANYL ACETATE	0.01	%	ND	EUCALYPTOL	0.005	%	0.103
GUAJOL	0.005	%	ND	ISOBORNEOL	0.005	%	ND
LIMONENE	0.005	%	0.011				
LINALOOL	0.01	%	ND				
NEROL	0.005	%	ND				
OCIMENE	0.005	%	ND				
PULEGONE	0.005	%	ND				
SABINENE	0.005	%	ND				
SABINENE HYDRATE	0.01	%	ND				
TERPINEOL	0.005	%	ND				
TERPINOLENE	0.005	%	ND				
TRANS-CARYOPHYLLENE	0.005	%	0.019				
TRANS-NEROLIDOL	0.005	%	ND				
VALENCENE	0.005	%	ND				
CEDROL	0.005	%	ND				
ALPHA-HUMULENE	0.005	%	ND				
ALPHA-PINENE	0.005	%	ND				
ALPHA-TERPINENE	0.005	%	ND				
BETA-MYRCENE	0.005	%	ND				
BETA-PINENE	0.005	%	ND				
BORNEOL	0.01	%	ND				
CAMPHENE	0.005	%	ND				
CAMPHOR	0.01	%	ND				
CARYOPHYLLENE OXIDE	0.005	%	ND				
ALPHA-CEDRENE	0.005	%	ND				
ALPHA-BISABOLOL	0.005	%	ND				
ISOPULEGOL	0.01	%	ND				
<b>Total</b>		0.257					

## Terpenes

TESTED

**Analyzed by** 18    **Weight** 1.026g    **Extraction date** 12/21/20 03:12:04    **Extracted By** 18

**Analysis Method -SOP.T.40.090**  
**Analytical Batch -MO001569TER**    **Reviewed On - 12/23/20 12:33:49**  
**Instrument Used : GCMS8050 with Liquid Handler**  
**Running On :**  
**Batch Date : 12/21/20 15:21:22**

Reagent	Dilution	Consums. ID
Terpenoid profile screening is performed using GC-MS/MS TQ-8040 with Liquid Injection (Gas Chromatography - Mass Spectrometer Triple Quad) which can screen 37 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.		

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**David Greene**  
Lab Director

State License # 19-05-02P    ISO Accreditation # .

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01/04/2021

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# Certificate of Analysis

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**Telephone:** 205-490-8043

**Email:**  
customerservice@uneekbotanicals.com

**Sample :** M001221034-001  
**Harvest/LOT ID:** BF001GG120320500S

**Batch# :** BF001GG120320500S  
**Sampled :** 12/15/20  
**Ordered :** 12/15/20

**Sample Size Received :** 60 ml  
**Completed :** 12/29/20 **Expires:** 12/29/21  
**Sample Method :** SOP Client Method

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## Pesticides

# PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.020	ppm	0.5	ND	PROPICONAZOLE	0.010	ppm	0.4	ND
ACEPHATE	0.010	ppm	0.5	ND	PROPOXUR	0.010	ppm	0.2	ND
ACEQUINOCYL	0.02	ppm	2	ND	PYRETHRIN I	0.010	ppm	1	ND
ACETAMIPRID	0.010	ppm	0.2	ND	PYRIDABEN	0.005	ppm	0.2	ND
ALDICARB	0.020	ppm	0.4	ND	SPINETORAM	0.005	ppm	0.5	ND
AZOXYSTROBIN	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN A)	0.010	ppm	0.2	ND
BIFENAZATE	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN D)	0.010	ppm	0.2	ND
BOSCALID	0.005	ppm	0.4	ND	SPIROMESIFEN	0.010	ppm	0.2	ND
CARBARYL	0.010	ppm	0.2	ND	SPIROTETRAMAT	0.020	ppm	0.2	ND
CARBOFURAN	0.010	ppm	0.2	ND	SPIROXAMINE	0.010	ppm	0.4	ND
CHLORANTRANILIPROLE	0.010	ppm	0.2	ND	TEBUCONAZOLE	0.010	ppm	0.4	ND
CHLORPYRIFOS	0.010	ppm	0.2	ND	THIACLOPRID	0.010	ppm	0.2	ND
CLOFENTEZINE	0.010	ppm	0.2	ND	THIAMETHOXAM	0.010	ppm	0.5	ND
COUMAPHOS	0.005	ppm	0.2	ND	TRIFLOXYSTROBIN	0.010	ppm	0.2	ND
CYPERMETHRIN	0.010	ppm	1	ND					
DAMINOZIDE	0.010	ppm	1	ND					
DAZANON	0.010	ppm	0.2	ND					
DICHLORVOS	0.050	ppm	0.1	ND					
DIMETHOATE	0.010	ppm	0.2	ND					
DIMETHOMORPH	0.005	ppm	0.1	ND					
ETHOPROPHOS	0.010	ppm	0.2	ND					
ETOFENPROX	0.010	ppm	0.4	ND					
ETOXAZOLE	0.010	ppm	0.2	ND					
FENHEXAMID	0.005	ppm	0.1	ND					
FENOXYCARB	0.010	ppm	0.2	ND					
FENPYROXIMATE	0.010	ppm	0.4	ND					
FIPRONIL	0.020	ppm	0.4	ND					
FLONICAMID	0.010	ppm	1	ND					
FLUDIOXONIL	0.010	ppm	0.4	ND					
HEXYTHIAZOX	0.010	ppm	1	ND					
IMAZALIL	0.010	ppm	0.2	ND					
IMIDACLOPRID	0.010	ppm	0.4	ND					
KRESOXIM-METHYL	0.010	ppm	0.4	ND					
MALATHION	0.010	ppm	0.2	ND					
METALAXYL	0.010	ppm	0.2	ND					
METHIOCARB	0.010	ppm	0.2	ND					
METHOMYL	0.010	ppm	0.6	ND					
MEVINPHOS	0.010	ppm	0.1	ND					
MYCLOBUTANIL	0.010	ppm	0.2	ND					
NALED	0.010	ppm	0.5	ND					
OXAMYL	0.010	ppm	1	ND					
PACLOBUTRAZOL	0.010	ppm	0.4	ND					
PERMETHRINS	0.050	ppm	1	ND					
PHOSMET	0.010	ppm	0.2	ND					
PIPERONYL BUTOXIDE	0.010	ppm	3	ND					
PRALLETHRIN	0.010	ppm	0.2	ND					

**Pesticides**
PASSED

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<b>Analyzed by</b> NA	<b>Weight</b> NA	<b>Extraction date</b> NA	<b>Extracted By</b> NA
<b>Analysis Method -</b> SOP.T.30.060, SOP.T.40.060 ,		<b>Reviewed On-</b> 12/22/20 11:40:42	
<b>Analytical Batch -</b>			
<b>Instrument Used :</b>			
<b>Running On :</b>			
<b>Batch Date :</b>			

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Reagent	Dilution	Consums. ID
Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). *		

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**David Greene**  
Lab Director

State License # 19-05-02P  
ISO Accreditation # .

Signature

01/04/2021

Signed On



# Certificate of Analysis

**PASSED**

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customerservice@unekbotanicals.com

**Sample :** MO01221034-001  
**Harvest/LOT ID:** BF001GG120320500S  
**Batch# :** BF001GG120320500S  
**Sample Size Received :** 60 ml  
**Completed :** 12/29/20 **Expires:** 12/29/21  
**Sample Method :** SOP Client Method  
**Ordered :** 12/15/20

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## Residual Solvents

PASSED

## Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
TRICHLOROETHENE	3	ppm	80	PASS	ND
CHLOROFORM	0.24	ppm	60	PASS	ND
1,2-DICHLOROETHENE	0.24	ppm	1870	PASS	ND
1,1-DICHLOROETHENE	2	ppm	8	PASS	ND
PENTANES	90	ppm	2500	PASS	ND
BUTANES (N-BUTANE)	50	ppm	5000	PASS	ND
ACETONITRILE	7.2	ppm	410	PASS	ND
ACETONE	90	ppm	5000	PASS	ND
2-PROPANOL	60	ppm	5000	PASS	ND
HEXANES	6	ppm	290	PASS	ND
XYLENES	18	ppm	2170	PASS	ND
TOLUENE	18	ppm	1068	PASS	ND
PROPANE	80	ppm	5000	PASS	ND
METHANOL	30	ppm	3000	PASS	ND
HEPTANE	60	ppm	4000	PASS	ND
XYLENES-P (1,4-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYLENE OXIDE	0.6	ppm	50	PASS	ND
XYLENES-M (1,3-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYL ETHER	60	ppm	5000	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYL ACETATE	48	ppm	5000	PASS	ND
ETHANOL	120	ppm	5000	PASS	ND
DICHLOROMETHANE	15	ppm	600	PASS	ND

**Analyzed by** 18  
**Weight** 0.026g  
**Extraction date** 12/21/20 03:12:23  
**Extracted By** 18

**Analysis Method -SOP.T.40.032**  
**Analytical Batch -MO001567SOL**  
**Instrument Used : GCMS2010**  
**Running On :**  
**Batch Date : 12/21/20 15:18:22**

**Reviewed On - 12/22/20 09:12:40**

Reagent	Dilution	Consums. ID
Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 33 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).		

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**David Greene**  
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# Certificate of Analysis

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**Telephone:** 205-490-8043

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**Sample :** M001221034-001  
**Harvest/LOT ID:** BF001GG120320500S

**Batch# :**  
BF001GG120320500S

**Sampled :** 12/15/20

**Ordered :** 12/15/20

**Sample Size Received :** 60 ml  
**Completed :** 12/29/20 **Expires:** 12/29/21  
**Sample Method :** SOP Client Method

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**Microbials**

**PASSED**

**Mycotoxins**

**PASSED**

Analyte	LOD	Result
ASPERGILLUS_TERREUS_1J2		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.

**Analysis Method -SOP.T.40.043**  
**Analytical Batch -NA Batch Date :**  
**Instrument Used :**  
**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.001	ppm	ND	0.02
AFLATOXIN G1	0.001	ppm	ND	0.02
AFLATOXIN B2	0.001	ppm	ND	0.02
AFLATOXIN B1	0.001	ppm	ND	0.02
OCHRATOXIN A+	0.001	ppm	ND	0.02

**Analysis Method -SOP.T.30.060, SOP.T.40.060**  
**Analytical Batch - | Reviewed On - 12/23/20 12:07:01**  
**Instrument Used :**  
**Running On :**  
**Batch Date :**

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

**Heavy Metals**

**PASSED**

**Reagent**

110119.52  
110119.44  
112519.01  
110119.36

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	10
CADMIUM	0.02	ppm	ND	4.1
LEAD	0.02	ppm	ND	10
MERCURY	0.02	ppm	ND	2

Analyzed by	Weight	Extraction date	Extracted By
18	0.508g	12/21/20 03:12:43	18

**Analysis Method -SOP.T.40.050, SOP.T.30.052**  
**Analytical Batch -M0001566HEA | Reviewed On - 12/22/20 10:33:35**  
**Instrument Used : ICP-MS 2030**  
**Running On :**  
**Batch Date : 12/21/20 15:14:11**

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. \*Action Limits based on Colorado Regulations.

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