



Sample: 2112FID3922.26567

Strain: Blueberry Muffin

Batch #: 1; Lot #:

METRC Batch: 1A408010000CABD000000284; METRC Sample: 1A408010000CABD000000293

Analysis Initiated: 12/21/2021; Report Created: 12/23/2021

Sampling SOP: SOP-0050

## Blueberry Muffin Flower (H4)

Plant, Flower - Cured, Indoor

Harvest/Production Date:



**16.36%**  
Total Potential  
Psychoactive THC

**0.06%**  
Total CBD

**Pass**  
Foreign Matter

**18.64%**  
Total Raw THC

**19.06%**  
Total Cannabinoids

**Pass**  
10.64%  
Moisture

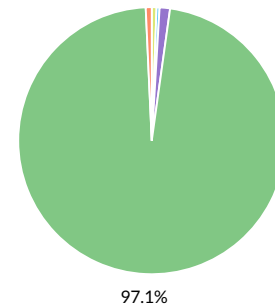
## Cannabinoids

Pass

Analytical Calibration Batch: Cannabinoids AF 11162021

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.05	18.50	185.0
Δ9-THC	0.05	0.14	1.4
Δ8-THC	0.05	ND	ND
THCV	0.05	ND	ND
CBDa	0.05	0.07	0.7
CBD	0.05	ND	ND
CBN	0.05	<LOQ	<LOQ
CBGa	0.05	0.24	2.4
CBG	0.05	0.11	1.1
CBC	0.05	ND	ND
<b>Total</b>		<b>19.06</b>	<b>190.6</b>

Legend: CBG (yellow), CBDa (blue), CBGa (purple), THCa (green), Δ9-THC (orange)



Total Potential Psychoactive THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0037; Full spectrum cannabinoid analysis utilizing Shimadzu Prominence High Performance Liquid Chromatography with UV detection (HPLC-UV).

SOP-0035; Foreign matter inspection includes but is not limited to hair, insects, stems, and feces. Filth is inspected using a M16-209 stereoscope. Stem measurements are performed using fisher calipers.

SOP-0036; Moisture analysis is performed using a Shimadzu moisture analyzer MOC63u UL.



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Laboratory Director

Accredited to ISO/IEC 17025:2017  
Accreditation #: 102722

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## Blueberry Muffin Flower (H4)

Plant, Flower - Cured, Indoor

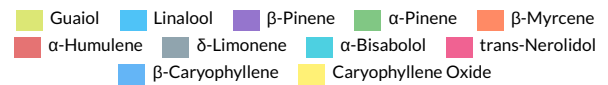
Harvest/Production Date:



## Terpenes

Analytical Calibration Batch: Terpenes 12132021

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Caryophyllene	0.008	0.541	5.41
δ-Limonene	0.008	0.291	2.91
α-Bisabolol	0.008	0.198	1.98
β-Myrcene	0.008	0.152	1.52
α-Humulene	0.008	0.138	1.38
Linalool	0.008	0.122	1.22
Guaiol	0.008	0.070	0.70
β-Pinene	0.008	0.051	0.51
Caryophyllene Oxide	0.008	0.039	0.39
trans-Nerolidol	0.008	0.035	0.35
α-Pinene	0.008	0.028	0.28
α-Terpinene	0.008	ND	ND
Camphene	0.008	<LOQ	<LOQ
cis-Nerolidol	0.008	ND	ND
δ-3-Carene	0.008	ND	ND
Eucalyptol	0.008	ND	ND
γ-Terpinene	0.008	ND	ND
Geraniol	0.008	ND	ND
Isopulegol	0.008	ND	ND
Ocimene	0.008	ND	ND
p-Cymene	0.008	ND	ND
Terpinolene	0.008	ND	ND
<b>Total</b>		<b>1.665</b>	<b>16.65</b>



## Primary Aromas



LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0044; Terpenoid profile screen is performed using a Thermo Scientific TRACE 1300 Gas Chromatography instrument equipped with a Flame Ionization Detector (GC-FID).



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# Certificate of Analysis

Sample: 2112FID3922.26567

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Sampling SOP: SOP-0050

## Blueberry Muffin Flower (H4)

Plant, Flower - Cured, Indoor

Harvest/Production Date:



### Residual Solvents

Not Tested

Analytical Calibration Batch:

Analyte	LOQ	State Limits	Mass	Status	Analyte	LOQ	State Limits	Mass	Status
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LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0056; A wide spectrum analysis of Residual Solvents using Gas Chromatography Mass Spectrometry (Thermo Scientific ISQ7000 GCMS).

### Mycotoxins

Pass

Analytical Calibration Batch: 12/1/2021

Analyte	LOQ	State Limit	Mass	Status
	PPB	PPB	PPB	
Ochratoxin A	12	20	ND	Pass
Total Aflatoxins	20	20	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0048; Mycotoxin screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.

### Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
Aerobic Bacteria	100000	NR	NT
Bile-Tolerant Gram-Negative Bacteria	10000	NR	NT
E. Coli	1	ND	Pass
Mold	10000	ND	Pass
Salmonella		ND	Pass

LOQ = Limit of Quantitation; TNC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0057: Mold, E.Coli, and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0061: Mold enumeration using Hardy Diagnostics media.



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# Certificate of Analysis

Groove, LLC

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Analysis Initiated: 12/21/2021; Report Created: 12/23/2021

Sampling SOP: SOP-0050

## Blueberry Muffin Flower (H4)

Plant, Flower - Cured, Indoor

Harvest/Production Date:



## Pesticides

Analytical Calibration Batch: 12/1/2021

Pass

Analyte	LOQ	State Limit	Expanded Limit	Mass	Status
	PPM	PPM	PPM	PPM	
Abamectin	0.12	0.5	0.5	ND	Pass
Acequinocyl	0.12	2	2	ND	Pass
Bifenazate	0.12	0.2	0.2	ND	Pass
Bifenthrin	0.12	0.2	0.2	ND	Pass
Chloromequat	0.12	1	1	ND	Pass
Cyfluthrin	0.12	1	1	ND	Pass
Daminozide	0.12	1	1	ND	Pass
Etoxazole	0.12	0.2	0.2	ND	Pass
Fenoxycarb	0.12	0.2	0.2	ND	Pass
Imazalil	0.12	0.2	0.2	ND	Pass
Imidacloprid	0.12	0.4	0.4	ND	Pass
Myclobutanil	0.12	0.2	0.2	ND	Pass
Paclobutrazol	0.12	0.4	0.4	ND	Pass
Pyrethrins	0.12	1	1	ND	Pass
Spinosad	0.12	0.2	0.2	ND	Pass
Spirotetramat	0.12	0.2	0.2	ND	Pass
Trifloxystrobin	0.12	0.2	0.2	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0048; Pesticide screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.



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