



**Genesis Testing Labs**  
 1620 South Main St, Unit A  
 Grove, OK 74344  
 (918)791-3460  
 OMMA # LAAA-EKZ6-UNEB

# Certificate of Analysis

<b>Client Name</b>	Minerva Canna OK	<b>License Number</b>	GAAA-E12Q-ARKB
<b>Address</b>	39026 S. Hwy. 82 Vinita, OK 74301	<b>Phone</b>	918-630-4422
<b>Sample ID</b>	SA-113020-4159	<b>Sample Type</b>	Flower
<b>Strain</b>	First 48	<b>Sample Batch #</b>	

## Summary of Results

Potency Profile	
Cannabinoid	Result mg/g
CBDV	-
CBDA	0.941552
CBN	-
CBD	1.51846
CBGA	3.65736
CBG	2.14979
THCV	0.925224
Δ9-THC	9.55702
Δ8-THC	-
THCA	234.136
CBC	-
<b>Total THC %</b>	21.4894%
<b>Total THC mg/g</b>	214.894

Terpene Profile	
Terpene	Result %
Camphene	0.150213
Myrcene	0.607491
β-pinene	0.228258
3-Carene	-
Delta-limonene	0.24328
Cymene	-
β-Ocimene	0.157397
Eucalyptol	0.12964
γ-Terpinene	-
α-Terpinene	-
Terpinolene	0.156962
Linalool	0.241103
Isopulegol	0.17982
Geraniol	-
β-Caryophyllene	0.30663
Humulene	0.203005
Nerolidol	0.332101
Guaiol	0.120932
Caryophyllene oxide	0.152934
α-Bisabolol	0.131926
<b>Total Terpene %</b>	3.34169

Microbiological Profile	
<b>All Results</b>	<b>Pass</b>

Mycotoxin Screening	
<b>All Results</b>	<b>NT</b>

Residual Solvents	
<b>All Results</b>	<b>NT</b>

Heavy Metals Screening	
<b>All Results</b>	<b>Pass</b>

Pesticide Screening	
<b>All Results</b>	<b>Pass</b>

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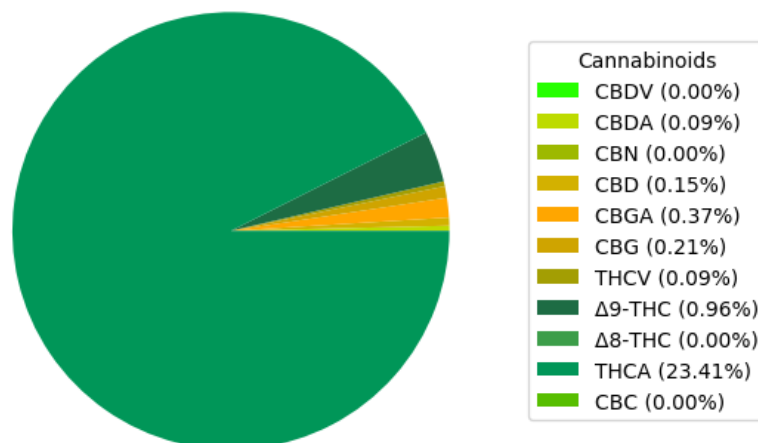
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<b>Strain</b>	First 48	<b>Sample Batch #</b>	

## Potency

<b>Date Analyzed:</b>	<b>Date Completed:</b>	<b>Batch #:</b> BA-120720-655
<b>Instrument:</b> Agilent 1100 HPLC	<b>Method:</b> Internal Method 1	<b>Lab Tech:</b> Audrey Krabacher

Cannabinoid	Result %	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
CBDV	ND	ND	-	1.000
CBDA	0.0942	0.9416	-	1.000
CBN	ND	ND	-	1.000
CBD	0.1518	1.5185	-	1.000
CBGA	0.3657	3.6574	-	1.000
CBG	0.2150	2.1498	-	1.000
THCV	0.0925	0.9252	-	1.000
Δ9-THC	0.9557	9.5570	-	1.000
Δ8-THC	ND	ND	-	1.000
THCA	23.4136	234.136	-	1.000
CBC	ND	ND	-	0.885
<b>% Moisture</b>	8.46			
<b>Total Cannabinoids</b>	25.2885	252.885		
<b>Total CBD</b>	0.2344	2.3442		
<b>Total THC</b>	21.4894	214.894		

Cannabinoid Distribution (%)



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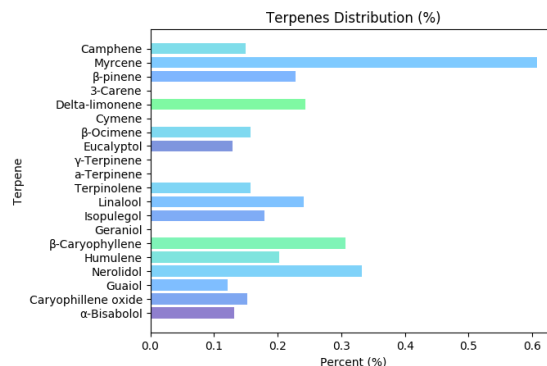
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## Terpenoid

<b>Date Analyzed:</b>	<b>Date Completed:</b>	<b>Batch #:</b> BA-120320-625
<b>Instrument:</b> Terpenes by Direct Injection	<b>Method:</b> Internal Method 1	<b>Lab Tech:</b> John Boyle

Terpene	Result (mg/g)	Result (%)	LOD (ug/g)	LOQ (ug/g)
Camphene	1.5021	0.1502	-	0.000004600
Myrcene	6.0749	0.6075	-	0.000004600
β-pinene	2.2826	0.2283	-	0.000004600
3-Carene	ND	ND	-	0.000004600
Delta-limonene	2.4328	0.2433	-	0.000004600
Cymene	ND	ND	-	0.000004600
β-Ocimene	1.5740	0.1574	-	0.000004600
Eucalyptol	1.2964	0.1296	-	0.000004600
γ-Terpinene	ND	ND	-	0.000004600
α-Terpinene	ND	ND	-	0.000004600
Terpinolene	1.5696	0.1570	-	0.000004600
Linalool	2.4110	0.2411	-	0.000004600
Isopulegol	1.7982	0.1798	-	0.000004600
Geraniol	ND	ND	-	0.000004600
β-Caryophyllene	3.0663	0.3066	-	0.000004600
Humulene	2.0301	0.2030	-	0.000004600
Nerolidol	3.3210	0.3321	-	0.000004600
Guaiol	1.2093	0.1209	-	0.000004600
Caryophyllene oxide	1.5293	0.1529	-	0.000004600
α-Bisabolol	1.3193	0.1319	-	0.000004600

**Total Terpenes (%):** 3.3417



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## Foreign Materials

**PASS**

**Date Analyzed:** **Date Completed:**  
**Instrument:** Microscope **Method:** Internal Method 1 **Lab Tech:** Ethanie Gillum

Analyte	Result (%)	Threshold (%)	Pass/Fail
Sand, Soils, Cinders, and Dirt	ND	25	Pass
Imbedded Foreign Material	ND	25	Pass
Insect Fragment	ND	1	Pass
Hair	ND	1	Pass
Mammalian Excreta	ND	1	Pass

## Heavy Metals

**PASS**

**Date Analyzed:** **Date Completed:**  
**Instrument:** HPLC-ICP/MS QQQ (Agilent 1260 and 7900) **Method:** Internal Method 1 **Lab Tech:** John Boyle

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Threshold (ppm)	Pass/Fail
Cadmium	ND	0.50	-	0.4	Pass
Lead	ND	0.50	-	1.0	Pass
Arsenic	ND	0.50	-	0.4	Pass
Mercury	ND	0.50	-	0.2	Pass

## Microbial Analysis

**PASS**

**Date Analyzed:** **Date Completed:**  
**Instrument:** Binder Incubator and Hardy Wizard Reader **Method:** Hardy Compact Dry **Lab Tech:** Ethanie Gillum

Bacteria/Fungus	Result (CFU/g)	LOD (CFU/g)	LOQ (CFU/g)	Threshold (CFU/g)	Pass/Fail
Escherichia Coli (E. Coli)	ND	1.00	1.00	1	Pass
Yeast/Mold	ND	5000.00	1.00	10,000	Pass
Salmonella spp	ND	1.00	1.00	1	Pass

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## Pesticide Profile

**PASS**

**Date Analyzed:** **Date Completed:**  
**Instrument:** Agilent LC/MS QQQ **Method:** Internal Method 1 **Lab Tech:** John Boyle

Pesticide	Result (ppm)	LOQ (ppm)	Threshold (ppm)	Pass/Fail
Abamectin	ND	0.1	0.5	Pass
Azoxystrobin	ND	0.1	0.2	Pass
Bifenazate	ND	0.1	0.2	Pass
Etoxazole	ND	0.1	0.2	Pass
Imazalil	ND	0.1	0.2	Pass
Imidacloprid	ND	0.1	0.4	Pass
Malathion	ND	0.1	0.2	Pass
Myclobutanil	ND	0.1	0.2	Pass
Permethrin	ND	0.1	0.2	Pass
Spinosad	ND	0.1	0.2	Pass
Spiromesifen	ND	0.1	0.2	Pass
Spirotetramat	ND	0.1	0.2	Pass
Tebuconazole	ND	0.1	0.4	Pass

*Anthony Brixey*

*James Rhudy*

**Reviewed By:** Anthony Brixey  
12/09/2020

**Approved By:** James Rhudy  
12/09/2020