



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

Certificate of Analysis

Client Name	Minerva Canna OK	License Number	GAAA-E12Q-ARKB
Address	39026 S. Hwy. 82 Vinita, OK 74301	Phone	918-630-4422
Sample ID	SA-113020-4163	Sample Type	Flower
Strain	GG4	Sample Batch #	

Summary of Results

Potency Profile	
Cannabinoid	Result mg/g
CBDV	-
CBDA	0.603785
CBN	-
CBD	2.03238
CBGA	3.80061
CBG	2.66852
THCV	1.35313
Δ9-THC	8.74411
Δ8-THC	-
THCA	284.997
CBC	-
Total THC %	25.8686%
Total THC mg/g	258.686

Terpene Profile	
Terpene	Result %
Camphene	0.150839
Myrcene	0.230193
β-pinene	0.191594
3-Carene	-
Delta-limonene	0.354185
Cymene	-
β-Ocimene	0.157523
Eucalyptol	0.12755
γ-Terpinene	-
α-Terpinene	-
Terpinolene	0.157092
Linalool	0.21995
Isopulegol	0.1834
Geraniol	0.146094
β-Caryophyllene	1.09695
Humulene	0.447125
Nerolidol	0.164424
Guaiol	-
Caryophyllene oxide	0.144262
α-Bisabolol	0.244964
Total Terpene %	4.01614

Microbiological Profile	
All Results	Pass

Mycotoxin Screening	
All Results	NT

Residual Solvents	
All Results	NT

Heavy Metals Screening	
All Results	Pass

Pesticide Screening	
All Results	Pass

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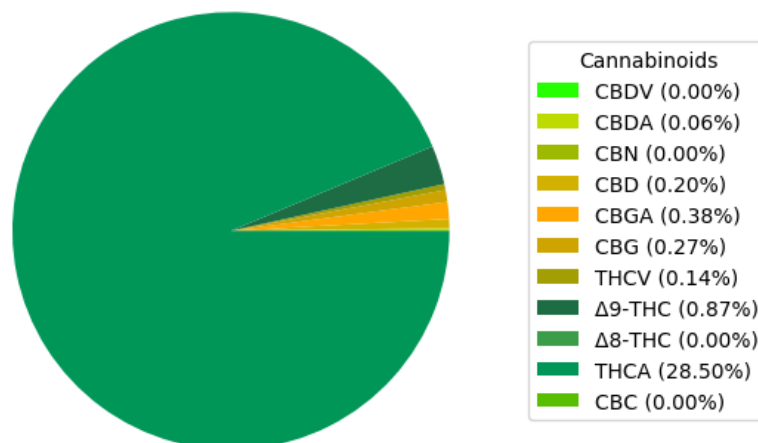
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Potency

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

Cannabinoid	Result %	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
CBDV	ND	ND	-	1.000
CBDA	0.0604	0.6038	-	1.000
CBN	ND	ND	-	1.000
CBD	0.2032	2.0324	-	1.000
CBGA	0.3801	3.8006	-	1.000
CBG	0.2669	2.6685	-	1.000
THCV	0.1353	1.3531	-	1.000
Δ9-THC	0.8744	8.7441	-	1.000
Δ8-THC	ND	ND	-	1.000
THCA	28.4997	284.997	-	1.000
CBC	ND	ND	-	0.885
% Moisture	7.86			
Total Cannabinoids	30.42	304.2		
Total CBD	0.2562	2.5619		
Total THC	25.8686	258.686		

Cannabinoid Distribution (%)





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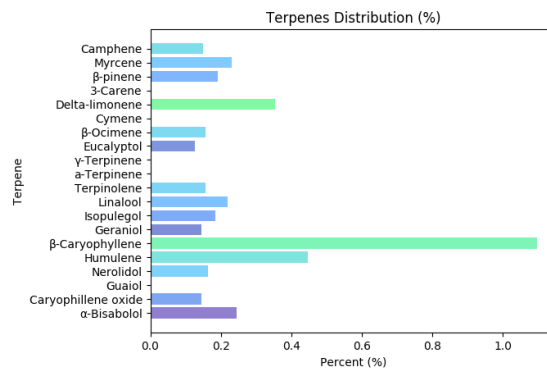
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Terpenoid

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

Terpene	Result (mg/g)	Result (%)	LOD (ug/g)	LOQ (ug/g)
Camphene	1.5084	0.1508	-	0.000004600
Myrcene	2.3019	0.2302	-	0.000004600
β-pinene	1.9159	0.1916	-	0.000004600
3-Carene	ND	ND	-	0.000004600
Delta-limonene	3.5419	0.3542	-	0.000004600
Cymene	ND	ND	-	0.000004600
β-Ocimene	1.5752	0.1575	-	0.000004600
Eucalyptol	1.2755	0.1275	-	0.000004600
γ-Terpinene	ND	ND	-	0.000004600
α-Terpinene	ND	ND	-	0.000004600
Terpinolene	1.5709	0.1571	-	0.000004600
Linalool	2.1995	0.2200	-	0.000004600
Isopulegol	1.834	0.1834	-	0.000004600
Geraniol	1.4609	0.1461	-	0.000004600
β-Caryophyllene	10.9695	1.0970	-	0.000004600
Humulene	4.4713	0.4471	-	0.000004600
Nerolidol	1.6442	0.1644	-	0.000004600
Guaiol	ND	ND	-	0.000004600
Caryophyllene oxide	1.4426	0.1443	-	0.000004600
α-Bisabolol	2.4496	0.2450	-	0.000004600

Total Terpenes (%): 4.0161



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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