



Certificate of Analysis

Borealis Natural Gardens

Sample: 2209FID3957.26539

Strain: Zookies

Batch #: 3; Lot #:

METRC Batch: 1A4080100001FAE000000784; METRC Sample: 1A4080100001FAE000000790

Analysis Initiated: 09/23/2022; Report Created: 09/28/2022

Sampling SOP: SOP-0050

Zookies

Plant, Flower - Cured, Indoor
Harvest/Production Date: 08/02/2022



	25.21% Total Potential Psychoactive THC	0.07% Total CBD	Pass Foreign Matter
	28.65% Total Raw THC	29.41% Total Cannabinoids	Pass 9.09% Moisture

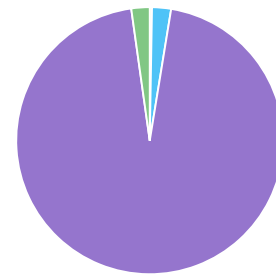
Cannabinoids

Pass

Analytical Calibration Batch: Cannabinoids AF 09122022

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.05	28.00	280.0
Δ9-THC	0.05	0.65	6.5
Δ8-THC	0.05	ND	ND
THCV	0.05	ND	ND
CBDa	0.05	0.08	0.8
CBD	0.05	ND	ND
CBN	0.05	ND	ND
CBGa	0.05	0.68	6.8
CBG	0.05	ND	ND
CBC	0.05	ND	ND
Total		29.41	294.1

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



95.2%

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; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

SOP-0037; Full spectrum cannabinoid analysis by High Performance Liquid Chromatography with UV detection (HPLC-UV). Reported result is based on sample dry weight.

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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Accreditation #: 102722

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Terpenes

Analytical Calibration Batch: Terpenes 09122022

Analyte	LOQ	Mass	Mass
	%	%	mg/g
δ-Limonene	0.008	0.524	5.24
β-Caryophyllene	0.008	0.397	3.97
Linalool	0.008	0.183	1.83
β-Myrcene	0.008	0.183	1.83
α-Humulene	0.008	0.130	1.30
trans-Nerolidol	0.008	0.107	1.07
β-Pinene	0.008	0.092	0.92
α-Bisabolol	0.008	0.091	0.91
α-Pinene	0.008	0.059	0.59
Camphene	0.008	0.024	0.24
α-Terpinene	0.008	ND	ND
Caryophyllene Oxide	0.008	ND	ND
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
Guaiol	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
Total		1.790	17.90



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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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: 09/22/2022

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

Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
	10000	NR	NT
Mold	Not Detected in 1.0g	ND	Pass
Aspergillus flavus	Not Detected in 1.0g	ND	Pass
Aspergillus fumigatus	Not Detected in 1.0g	ND	Pass
Aspergillus niger	Not Detected in 1.0g	ND	Pass
Aspergillus terreus	Not Detected in 1.0g	ND	Pass
Salmonella	Not Detected in 1.0g	ND	Pass
STEC	Not Detected in 1.0g	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.

LOQ = Limit of Quantitation; TNTC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0057; STEC and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0063; Aspergillus species specific analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0061; Mold enumeration using Hardy Diagnostics media.



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Pesticides

Analytical Calibration Batch: 09/22/2022

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 chloride	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

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