

## Grow Sciences

Grow Sciences  
Phoenix, AZ 85032  
help@growsciences.com  
(480) 442-5621  
Lic. #00000012ESIS11195422


Sample: 2309LVL1066.5607

Strain: MAC  
Batch#: C.MA230831CT.HYD; Batch Size: 11 g  
Sample Received: 09/26/2023; Report Created: 10/03/2023; Expires: 10/03/2024  
Sampling Date: , Sampling Time:  
Harvest Date: ; Manufacturing Date:

## MAC Cartridge

Concentrates & Extracts, Live Resin, Butane



	<b>73.16%</b>	<b>&lt;LOQ</b>	<b>78.44%</b>
	Total THC	Total CBD	
	<b>44.46 mg/g</b>	<b>Not Tested</b>	Total Cannabinoids
Total Terpenes	Moisture NT		

## Cannabinoids

Complete

Analyte	LOQ	Mass	Mass	Qualifier
	%	%	mg/g	
THCa	0.630	23.518	235.18	
Δ9-THC	0.630	52.534	525.34	
Δ8-THC	0.630	ND	ND	
THCVa	0.630	<LOQ	<LOQ	
THCV	0.630	<LOQ	<LOQ	
CBDa	0.630	<LOQ	<LOQ	
CBD	0.630	ND	ND	
CBDVa	0.630	ND	ND	
CBDV	0.630	ND	ND	
CBN	0.630	<LOQ	<LOQ	
CBGa	0.630	2.391	23.91	
CBG	0.630	<LOQ	<LOQ	
CBC	0.630	<LOQ	<LOQ	
<b>Total</b>		<b>78.443</b>	<b>784.43</b>	

Qualifiers:  
Date Tested: 09/28/2023 07:00 am

Total THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

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. Cannabinoid potency performed by HPLC-DAD per SOP-(1608). ADHS approved method for potency by HPLC-DAD for all listed analytes.

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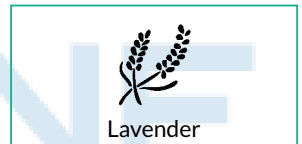
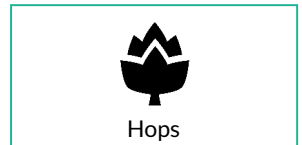
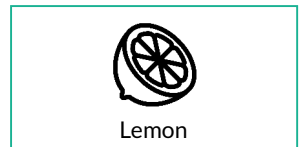
Concentrates & Extracts, Live Resin, Butane



## Terpenes

Analyte	LOQ	Mass	MassQualifier	Analyte	LOQ	Mass	MassQualifier
	mg/g	mg/g	%		mg/g	mg/g	%
δ-Limonene	0.78	15.71	1.571	Citronellol	3.88	ND	ND
β-Caryophyllene	0.78	7.74	0.774	Eucalyptol	0.39	ND	ND
α-Pinene	0.39	6.11	0.611	Farnesene	0.06	ND	ND
α-Humulene	0.39	2.54	0.254	Fenchone	0.78	<LOQ	<LOQ
β-Myrcene	0.39	2.29	0.229	γ-Terpinene	0.39	ND	ND
Linalool	0.78	2.06	0.206	γ-Terpineol	0.08	ND	ND
β-Pinene	0.78	2.03	0.203	Geraniol	7.77	ND	ND
Fenchol	0.39	1.98	0.198	Geranyl Acetate	0.39	ND	ND
α-Bisabolol	0.39	1.39	0.139	Guaiol	0.39	ND	ND
α-Terpineol	0.63	1.36	0.136	Isoborneol	3.88	ND	ND
cis-Ocimene	0.11	0.70	0.070	Isopulegol	0.39	ND	ND
Camphene	0.39	0.55	0.055	Menthol	0.39	ND	ND
3-Carene	0.78	ND	ND	Nerol	0.39	ND	ND
α-Cedrene	0.39	ND	ND	Pulegone	0.39	ND	ND
α-Phellandrene	0.39	ND	ND	p-Cymene	0.39	ND	ND
α-Terpinene	0.39	ND	ND	Sabinene	0.39	ND	ND
β-Eudesmol	0.39	ND	ND	Sabinene Hydrate	0.39	ND	ND
Borneol	1.17	<LOQ	<LOQ	Terpinolene	0.78	<LOQ	<LOQ
Camphor	1.55	ND	ND	trans-Nerolidol	0.39	ND	ND
Caryophyllene	0.39	<LOQ	<LOQ	trans-Ocimene	0.26	ND	ND
Oxide	0.39	<LOQ	<LOQ	Valencene	0.39	ND	ND
Cedrol	0.39	ND	ND				
cis-Nerolidol	0.78	ND	ND				

## Primary Aromas



**44.46 mg/g**

Total Terpenes

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Date Tested: 09/28/2023 07:00 am

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Concentrates & Extracts, Live Resin, Butane



## Residual Solvents

Pass

Analyte	LOQ	Limit	Mass	Status	Qualifier
	PPM	PPM	PPM		
Acetone	372.370	1000.000	ND	Pass	V1
Acetonitrile	151.370	410.000	ND	Pass	L1 V1
Benzene	0.740	2.000	ND	Pass	
Butanes	2477.530	5000.000	ND	Pass	V1 L1 M1
Chloroform	22.300	60.000	ND	Pass	V1 L1 M1
Dichloromethane	226.590	600.000	ND	Pass	
Ethanol	1847.530	5000.000	ND	Pass	
Ethyl-Acetate	1849.280	5000.000	ND	Pass	V1 L1 M1
Ethyl-Ether	1842.060	5000.000	ND	Pass	
Heptane	1844.740	5000.000	ND	Pass	
Hexanes	106.340	290.000	ND	Pass	
Isopropanol	1838.870	5000.000	ND	Pass	V1 L1 M1
Isopropyl-Acetate	1842.270	5000.000	ND	Pass	V1 L1 M1
Methanol	1102.470	3000.000	ND	Pass	L1 V1
Pentanes	1854.230	5000.000	ND	Pass	V1 L1 M1
Propane	2472.470	5000.000	ND	Pass	V1 L1 M1
Toluene	331.790	890.000	ND	Pass	
Xylenes	794.970	2170.000	ND	Pass	

LEVEL ONE

Qualifiers:  
Date Tested: 09/27/2023 07:00 am

Performed by GCMS-HS per SOP-LM-014. Methods used per AZDHS R9-17-404.03 and solvent limits set by AZDHS R9-17 Table 3.1. ADHS approved method for residual solvents by GCMS-HS for all listed analytes.



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## Pesticides

Pass

Analyte	LOQ	Limit	Units	Status	Qualifier	Analyte	LOQ	Limit	Units	Status	Qualifier
	PPM	PPM	PPM				PPM	PPM	PPM		
Abamectin	0.030	0.500	ND	Pass	V1	Hexythiazox	0.040	1.000	ND	Pass	
Acephate	0.040	0.400	ND	Pass		Imazailil	0.040	0.200	ND	Pass	
Acequinocyl	0.450	2.000	ND	Pass	M1	Imidacloprid	0.040	0.400	ND	Pass	
Acetamiprid	0.040	0.200	ND	Pass		Kresoxim Methyl	0.040	0.400	ND	Pass	
Aldicarb	0.040	0.400	ND	Pass		Malathion	0.040	0.200	ND	Pass	
Azoxystrobin	0.050	0.200	ND	Pass		Metalaxyl	0.040	0.200	ND	Pass	
Bifenazate	0.040	0.200	ND	Pass	L1	Methiocarb	0.040	0.200	ND	Pass	
Bifenthrin	0.040	0.200	ND	Pass		Methomyl	0.050	0.400	ND	Pass	L1 M1
Boscalid	0.040	0.400	ND	Pass		Myclobutanil	0.050	0.200	ND	Pass	
Carbaryl	0.040	0.200	ND	Pass		Naled	0.040	0.500	ND	Pass	
Carbofuran	0.040	0.200	ND	Pass		Oxamyl	0.040	1.000	ND	Pass	
Chlorantraniliprole	0.040	0.200	ND	Pass	L1 M1	Paclobutrazol	0.050	0.400	ND	Pass	L1
Chlorfenapyr	0.450	1.000	ND	Pass	L1 M1	Permethrins	0.050	0.200	ND	Pass	
Chlorpyrifos	0.050	0.200	ND	Pass		Phosmet	0.040	0.200	ND	Pass	
Clofentezine	0.040	0.200	ND	Pass		Piperonyl Butoxide	0.040	2.000	ND	Pass	
Cyfluthrin	0.440	1.000	ND	Pass		Prallethrin	0.040	0.200	ND	Pass	
Cypermethrin	0.040	1.000	ND	Pass		Propiconazole	0.040	0.400	ND	Pass	
Daminozide	0.440	1.000	ND	Pass		Propoxur	0.050	0.200	ND	Pass	
Dichlorvos (DDVP)	0.040	0.100	ND	Pass		Pyrethrins	0.450	1.000	ND	Pass	I1
Diazinon	0.050	0.200	ND	Pass		Pyridaben	0.040	0.200	ND	Pass	
Dimethoate	0.040	0.200	ND	Pass		Spinosad	0.050	0.200	ND	Pass	L1
Ethoprophos	0.040	0.200	ND	Pass		Spiromesifen	0.040	0.200	ND	Pass	
Etofenprox	0.040	0.400	ND	Pass		Spirotetramat	0.040	0.200	ND	Pass	
Etoxazole	0.040	0.200	ND	Pass		Spiroxamine	0.040	0.400	ND	Pass	
Fenoxycarb	0.050	0.200	ND	Pass		Tebuconazole	0.050	0.400	ND	Pass	
Fenpyroximate	0.040	0.400	ND	Pass		Thiacloprid	0.040	0.200	ND	Pass	
Fipronil	0.040	0.400	ND	Pass		Thiamethoxam	0.040	0.200	ND	Pass	
Fonicamid	0.040	1.000	ND	Pass		Trifloxystrobin	0.040	0.200	ND	Pass	
Fludioxonil	0.040	0.400	ND	Pass							

## Herbicides

Analyte	LOQ	Limit	Units	Status
	PPM	PPM	PPM	
Pendimethalin	0.040	0.100	NR	NT

### Qualifiers:

Date Tested: 09/29/2023 07:00 am  
Performed by LCMSMS per SOP-LM-021 and SOP-LM-022. ND = Not Detected; NR = Not Reported. Methods used per AZDHS R9-17-404.03 and pesticide limits set by AZDHS R9-17 Table 3.1. ADHS approved method for pesticide testing by LCMSMS for full list effective 5/1/2021.



1525 N Granite Reef Rd  
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http://www.levelonelabs.com  
Lic# 00000004LCIG00024823

Matthew Schuberth  
Laboratory Director

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www.confidentcannabis.com



This product has been tested by Level One Labs, LLC using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Level One Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Level One Labs.



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## Mycotoxins

Pass

Total Ochratoxins Date Tested: 09/28/2023  
Total Aflatoxins Date Tested: 09/28/2023

Analyte	LOQ	Limit	Units	Status	Qualifier
Total Aflatoxins (B1 B2 G1 and G2)	4.00	20.00	µg/kg	Pass	ND
Total Ochratoxins (A and B)	2.00	20.00	µg/kg	Pass	4.02

# LEVEL ONE

TNTC = Too Numerous to Count. The lower limit of quantification for Aflatoxin is 4ppb and the lower limit of quantification for Ochratoxin is 2ppb unless noted on the CoA by further dilution. Unless otherwise stated all quality control samples performed within specifications. Analysis Method/Instrumentation: direct ELISA produced by Romer Labs and read on Bio-Tek 800TS microplate reader. Procedure followed SOP-LM-018. Methods used per AZDHS R9-17-404.03 and R9-17-404.04 and limits set by AZDHS R9-17 Table 3.1. ADHS approved method.



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## Microbials

Pass

Analyte	Result	Result Units	Status	Qualifier
E. Coli	<10	CFU/G	Pass	
Salmonella	Not Detected	in one gram	Pass	
Aspergillus terreus	Not Detected	in one gram	Pass	
Aspergillus fumigatus, Aspergillus flavus, and Aspergillus niger	Not Detected	in one gram	Pass	

# LEVEL ONE

Qualifiers:  
Date Tested: 09/29/2023 12:00 am

TNTC = Too Numerous to Count. The lower limit of quantification for E. coli is 10 CFU/g unless noted on the CoA by further dilution. Unless otherwise stated all quality control samples performed within specifications. Analysis Method/Instrumentation: E. coli plating via 3M Petrifilm per SOP-LM-019, Salmonella spp. And Aspergillus spp. detection by Bio-Rad CFX96 Deep Well real-time PCR per SOP-LM-016 & SOP-LM-017. Methods used per AZDHS R9-17-404.04 and microbial limits set by AZDHS R9-17 Table 3.1. ADHS approved method for microbials for all listed organisms.



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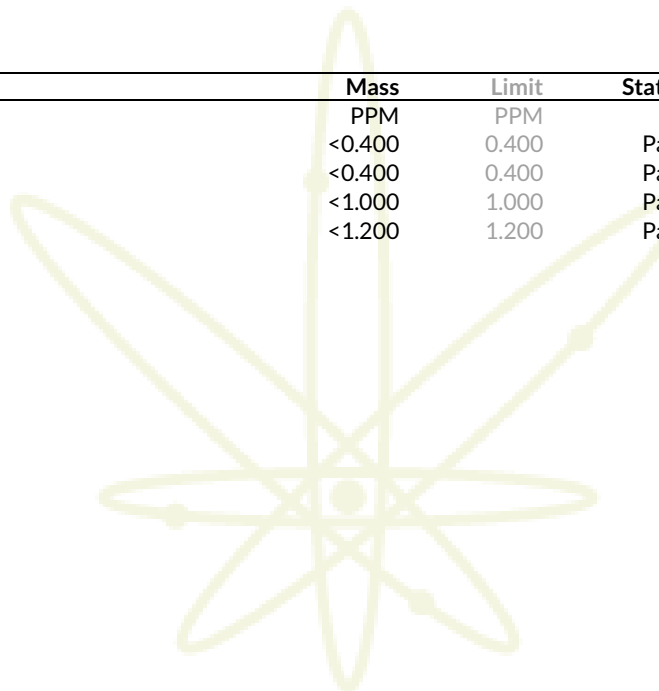
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## Heavy Metals

Pass

Analyte	Mass	Limit	Status	Qualifier
	PPM	PPM		
Arsenic	<0.400	0.400	Pass	V1
Cadmium	<0.400	0.400	Pass	
Lead	<1.000	1.000	Pass	
Mercury	<1.200	1.200	Pass	



# LEVEL ONE

Qualifiers:  
Date Tested: 10/02/2023 07:00 am

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. Subcontracted through IAS. Approved for all analytes by ICP-OES. Inter Ag Services Inc. Registration Certificate Identification Number: 00000009LCSL00311854



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