

Releaf Brands


8060 E 22nd St
Tucson, AZ 85710
hannatempesta@gmail.com
(650) 678-4037
Lic. #00000081DCPK00962019

Sample: 2312LVL1390.7495
Secondary License: 00000144ESQK21738687; Chain of Distribution: Desert Bloom ReLeaf Center, ReLeaf85624
Strain: GMO Punch; Batch#: 163 GMO Punch; Batch Size: 11 g
Sample Received: 12/15/2023; Report Created: 12/27/2023; Expires: 12/27/2024
Sampling Date: 12/14/2023; Sampling Time: 10; Sampling Person: Hanna
Harvest Date: 12/11/2023; Manufacturing Date: 12/11/2023

163 GMO Punch

Plant, Flower - Cured, Indoor



	22.58%	ND	26.77%
	Total THC	Total CBD	
	16.76 mg/g	Complete 6.8%	Total Cannabinoids
	Total Terpenes	Moisture	

Cannabinoids

Complete

Analyte	LOQ	Mass	Mass	Qualifier
	%	%	mg/g	
THCa	0.153	25.167	251.67	
Δ9-THC	0.153	0.510	5.10	
Δ8-THC	0.153	ND	ND	
THCVa	0.153	0.158	1.58	
THCV	0.153	ND	ND	
CBDa	0.153	ND	ND	
CBD	0.153	ND	ND	
CBDVa	0.153	ND	ND	
CBDV	0.153	ND	ND	
CBN	0.153	ND	ND	
CBGa	0.153	0.502	5.02	
CBG	0.153	<LOQ	<LOQ	
CBCa	0.153	0.433	4.33	Q3
CBC	0.153	ND	ND	
Total		26.770	267.70	

Qualifiers:
Date Tested: 12/18/2023 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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163 GMO Punch

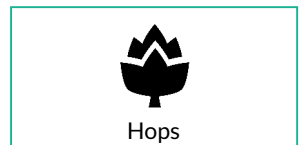
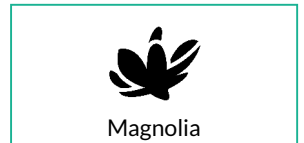
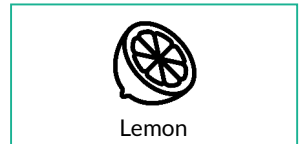
Plant, Flower - Cured, Indoor



Terpenes

Analyte	LOQ	Mass	MassQualifier	Analyte	LOQ	Mass	MassQualifier
	mg/g	mg/g	%		mg/g	mg/g	%
β-Caryophyllene	0.20	5.62	0.562	Cedrol	0.10	ND	ND
δ-Limonene	0.20	2.48	0.248	cis-Nerolidol	0.20	ND	ND
Farnesene	0.02	1.48	0.148	Citronellol	0.99	<LOQ	<LOQ
α-Humulene	0.10	1.39	0.139	Eucalyptol	0.10	ND	ND
β-Myrcene	0.10	1.24	0.124	Fenchone	0.20	ND	ND
Fenchol	0.10	1.00	0.100	γ-Terpinene	0.10	ND	ND
Guaiol	0.10	0.65	0.065	γ-Terpeneol	0.02	ND	ND
α-Bisabolol	0.10	0.62	0.062	Geraniol	1.97	<LOQ	<LOQ
α-Terpeneol	0.16	0.59	0.059	Geranyl Acetate	0.10	ND	ND
β-Eudesmol	0.10	0.53	0.053	Isoborneol	0.99	ND	ND
Linalool	0.20	0.37	0.037	Isopulegol	0.10	ND	ND
β-Pinene	0.20	0.27	0.027	Menthol	0.10	ND	ND
α-Pinene	0.10	0.26	0.026	Nerol	0.10	ND	ND
Caryophyllene	0.10	0.21	0.021	Pulegone	0.10	ND	ND
Oxide				p-Cymene	0.10	ND	ND
cis-OCimene	0.03	0.05	0.005	Sabinene	0.10	ND	ND
3-Carene	0.20	ND	ND	Sabinene Hydrate	0.10	ND	ND
α-Cedrene	0.10	ND	ND	Terpinolene	0.20	ND	ND
α-Phellandrene	0.10	ND	ND	trans-Nerolidol	0.10	ND	ND
α-Terpinene	0.10	ND	ND	trans-OCimene	0.06	ND	ND
Borneol	0.30	<LOQ	<LOQ	Valencene	0.10	ND	ND
Camphene	0.10	<LOQ	<LOQ				
Camphor	0.39	ND	ND				

Primary Aromas



16.76 mg/g
Total Terpenes

Qualifiers:
Date Tested: 12/18/2023 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. Qualifying code Q3: For informational purposes only.



Certificate of Analysis

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163 GMO Punch

Plant, Flower - Cured, Indoor



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	M2	Hexythiazox	0.040	1.000	ND	Pass	
Acephate	0.040	0.400	ND	Pass		Imazailil	0.040	0.200	ND	Pass	
Acetamiprid	0.040	0.200	ND	Pass		Imidacloprid	0.040	0.400	ND	Pass	
Aldicarb	0.040	0.400	ND	Pass		Kresoxim Methyl	0.040	0.400	ND	Pass	
Azoxystrobin	0.050	0.200	ND	Pass		Malathion	0.040	0.200	ND	Pass	
Bifenazate	0.040	0.200	ND	Pass		Metalaxyl	0.040	0.200	ND	Pass	
Bifenthrin	0.040	0.200	ND	Pass		Methiocarb	0.040	0.200	ND	Pass	
Boscalid	0.040	0.400	ND	Pass		Methomyl	0.050	0.400	ND	Pass	
Carbaryl	0.040	0.200	ND	Pass		Myclobutanil	0.050	0.200	ND	Pass	
Carbofuran	0.040	0.200	ND	Pass		Naled	0.040	0.500	ND	Pass	
Chlorantraniliprole	0.040	0.200	ND	Pass		Oxamyl	0.040	1.000	ND	Pass	
Chlorfenapyr	0.450	1.000	ND	Pass		Paclobutrazol	0.040	0.400	ND	Pass	
Chlorpyrifos	0.050	0.200	ND	Pass		Permethrins	0.040	0.200	ND	Pass	V1
Clofentezine	0.040	0.200	ND	Pass	M2	Phosmet	0.040	0.200	ND	Pass	
Cyfluthrin	0.440	1.000	ND	Pass		Piperonyl Butoxide	0.040	2.000	ND	Pass	
Cypermethrin	0.040	1.000	ND	Pass		Prallethrin	0.040	0.200	ND	Pass	
Daminozide	0.440	1.000	ND	Pass		Propiconazole	0.040	0.400	ND	Pass	
Dichlorvos (DDVP)	0.040	0.100	ND	Pass		Propoxur	0.050	0.200	ND	Pass	
Diazinon	0.050	0.200	ND	Pass		Pyrethrins	0.450	1.000	ND	Pass	
Dimethoate	0.040	0.200	ND	Pass		Pyridaben	0.040	0.200	ND	Pass	
Ethoprophos	0.040	0.200	ND	Pass		Spinosad	0.040	0.200	ND	Pass	M2
Etofenprox	0.040	0.400	ND	Pass	M2	Spiromesifen	0.040	0.200	ND	Pass	
Etoxazole	0.040	0.200	ND	Pass		Spirotetramat	0.040	0.200	ND	Pass	
Fenoxycarb	0.050	0.200	ND	Pass		Spiroxamine	0.040	0.400	ND	Pass	
Fenpyroximate	0.040	0.400	ND	Pass		Tebuconazole	0.040	0.400	ND	Pass	
Fipronil	0.040	0.400	ND	Pass		Thiacloprid	0.040	0.200	ND	Pass	
Fonicamid	0.040	1.000	ND	Pass		Thiamethoxam	0.040	0.200	ND	Pass	
Fludioxonil	0.040	0.400	ND	Pass		Trifloxystrobin	0.040	0.200	ND	Pass	

Herbicides

Analyte	LOQ	Limit	Units	Status
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Qualifiers:

Date Tested: 12/20/2023 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
Scottsdale, AZ
(480) 867-1520
http://www.levelonelabs.com
Lic# 00000004LCIG00024823

Matthew Schuberth
Laboratory Director

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coa.support@confidentlims.com
(866) 506-5866
www.confidentlims.com



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163 GMO Punch

Plant, Flower - Cured, Indoor



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: 12/18/2023 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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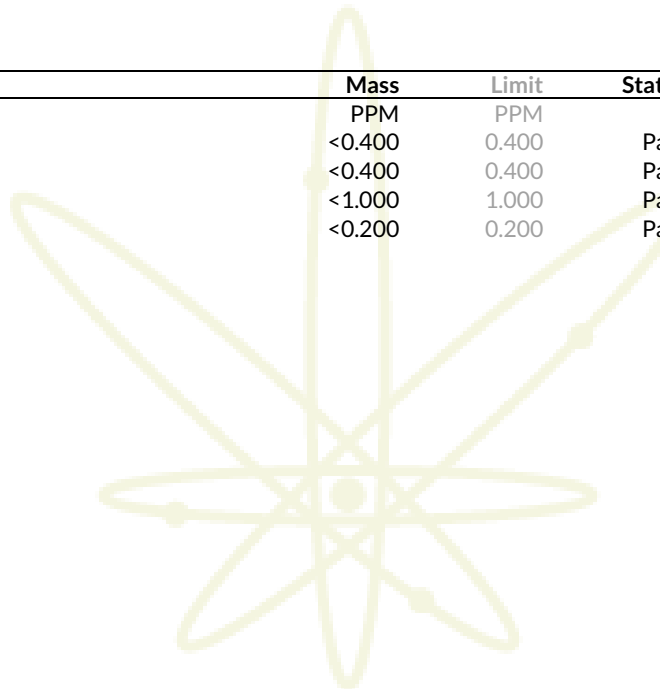
163 GMO Punch
Plant, Flower - Cured, Indoor



Heavy Metals

Pass

Analyte	Mass	Limit	Status	Qualifier
	PPM	PPM		
Arsenic	<0.400	0.400	Pass	
Cadmium	<0.400	0.400	Pass	
Lead	<1.000	1.000	Pass	
Mercury	<0.200	0.200	Pass	



LEVEL ONE

Qualifiers:
Date Tested: 12/20/2023 07:00 am

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