

High Grade Confidential

License#: 2320 E Baseline Rd Ste 490
Phoenix, AZ 85042
(520) 780-7740

Additional Licenses:
Batch #: 05061621

Sample Batch Collection: 06/23/21 15:41; Sample Batch Collected By: High Grade Confiden
Sample Received: 6/25/2021; Report Created: 7/19/2021

Hemlock

Laboratory Number: 2106269-03
Flower

Herbicides PASS	Pesticides PASS	Residual Solvents PASS	Metals PASS	Mycotoxins Not Tested	Aspergillus PASS	E. Coli/ Salmonella PASS
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Sample Image



Residual Solvents (GCMS-MS) Analyzed: 07/02/21 By: LEH

Analyte	RL	ppm	Q
Propane	625.00	ND	L1, N1, V1
Butanes	625.00	ND	V1
Pentanes	145.00	ND	
Acetonitrile	205.00	ND	
Dichloromethane	300.00	ND	
Hexanes	145.00	ND	
Chloroform	30.00	ND	
n-Heptane	2500.0	ND	
Methanol	1500.0	ND	
Ethanol	2500.0	ND	
Diethyl Ether	2500.0	ND	
Acetone	500.00	ND	
Isopropanol	2500.0	ND	
Ethyl acetate	2500.0	ND	
Isopropyl acetate	2500.0	ND	
Benzene	1.00	ND	
Toluene	445.00	ND	
Xylenes	100.00	ND	

Cannabinoid (HPLC) Analyzed: 07/01/21 By: CBH

Analyte	LOQ %	%	mg/g	Q
THC-A	0.50	28.18	281.8	D1
delta 9-THC	0.05	0.73	7.3	
delta 8-THC	0.05	0.05	0.5	
THC-V	0.05	0.08	0.8	
CBG-A	0.05	1.10	11	
CBD-A	0.05	0.09	0.9	
CBD	0.05	ND	ND	
CBD-V	0.05	ND	ND	
CBN	0.05	ND	ND	
CBG	0.05	0.15	1.5	
CBC	0.05	ND	ND	

Metals (ICP-MS) Analyzed: 07/06/21 By: JVR

Element	RL	ppm	Q
Arsenic	0.100	ND	
Cadmium	0.100	ND	
Lead	0.100	ND	
Mercury	0.010	ND	M1

Regulated Microbials (Petrifilm) Analyzed: 7/1/2021 By: NKB

Pathogens	RL	Result	Units	Q
E. coli	10.0	ND	cfu/g	

Regulated Microbials (PCR) Analyzed: 7/1/2021 By: MEF

Pathogens	RL	Result	Units	Q
Aspergillus	1.00	Absent	cfu/g	
Salmonella	1.00	Absent	cfu/g	

25.49 % 254.88 mg/g Total THC	0.08 % 0.78 mg/g Total CBD	30.40 % 304.00 mg/g Total Cannabinoids
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Total THC = THCa * 0.877 + delta 9-THC + delta 8-THC; Total CBD = CBDA * 0.877 + CBD

Regulated Mycotoxins (LC-MS TQ) Analyzed: By:

Pathogens	RL	ppb	Q
Aflatoxins	NT	NT	
Ochratoxins	NT	NT	

RL = Reporting Limit
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LOQ = Limit of Quantification



Erin Polly
Technical Laboratory Director

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Pesticides (LC-MS TQ) Analyzed: 07/15/21 By: MLC							
Analyte	RL	ppm	Q	Analyte	RL	ppm	Q
Acephate	0.204	ND		Acequinocyl	1.02	ND	
Acetamiprid	0.102	ND		Aldicarb	0.204	ND	
Azoxystrobin	0.102	ND		Bifenthrin	0.102	ND	
Boscalid	0.204	ND	R1, V1	Carbaryl	0.102	ND	
Carbofuran	0.102	ND		Chlorpyrifos	0.102	ND	
Diazinon	0.102	ND		Dimethoate	0.102	ND	
Ethoprophos	0.102	ND		Etofenprox	0.204	ND	
Etoxazole	0.102	ND		Fenoxycarb	0.102	ND	
Fenpyroximate E	0.204	ND		Fonicamid	0.510	ND	
Fludioxonil	0.204	ND		Hexythiazox	0.510	ND	
Imazalil	0.102	ND		Imidacloprid	0.204	ND	
Kresoxim-methyl	0.204	ND		Malathion	0.102	ND	
Metalaxyl	0.102	ND		Methiocarb	0.102	ND	
Methomyl	0.204	ND		Myclobutanil	0.102	ND	
Naled	0.255	ND		Oxamyl	0.510	ND	
Piperonyl butoxide	1.02	ND		Propiconazole	0.204	ND	
Propoxure	0.102	ND		Spiromesifen	0.102	ND	
Spirotetramat	0.102	ND		Spiroxamine	0.204	ND	
Tebuconazole	0.204	ND		Thiacloprid	0.102	ND	
Thiamethoxam	0.102	ND		Trifloxystrobin	0.102	ND	
Abamectin	0.255	ND		Bifenazate	0.102	ND	
Chlorantraniliprole	0.102	ND		Clofentezine	0.102	ND	
Cyfluthrin	0.510	ND		Cypermethrin	0.510	ND	
Daminozide	0.510	ND		DDVP (Dichlorvos)	0.051	ND	N1
Fipronil	0.204	ND		Paclobutrazol	0.204	ND	
Permethrins	0.102	ND		Phosmet	0.102	ND	
Prallethrin	0.102	ND	V1	Pyrethrins	0.510	ND	
Pyridaben	0.102	ND	M2	Spinosad	0.102	ND	
Chlorfenapyr	1.02	ND					

Herbicides (LC-MS TQ) Analyzed: 07/17/21 By: MLC			
Analyte	RL	ppm	Q
Pendimethalin	0.051	ND	

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Non-Regulated Microbials (PetriFilms) Analyzed: By:

	RL	Result	Units	Q
Pathogens				
Total Coliform	NT	NT	cfu/g	Q3
Yeast	NT	NT	cfu/g	Q3
Mold	NT	NT	cfu/g	Q3
Aerobic Bacteria	NT	NT	cfu/g	Q3
Enterobacteria	NT	NT	cfu/g	Q3

Terpenes (GCMS-MS) Analyzed: By:

	%	mg/g	Q
Compound			
alpha-Bisabolol	NT	NT	Q3
(-)-Borneol and (+)-Borneol	NT	NT	Q3
Camphene	NT	NT	Q3
Camphor	NT	NT	Q3
beta-Caryophyllene	NT	NT	Q3
trans-Caryophyllene	NT	NT	Q3
Caryophyllene Oxide	NT	NT	Q3
alpha-Cedrene	NT	NT	Q3
Cedrol	NT	NT	Q3
Endo-fenchyl Alcohol	NT	NT	Q3
Eucalyptol	NT	NT	Q3
Fenchone	NT	NT	Q3
Geraniol	NT	NT	Q3
Geranyl acetate	NT	NT	Q3
Guaiol	NT	NT	Q3
Hexahydrothymol	NT	NT	Q3
alpha-Humulene	NT	NT	Q3
Isoborneol	NT	NT	Q3
Isopulegol	NT	NT	Q3
Limonene	NT	NT	Q3
Linalool	NT	NT	Q3
p-Mentha-1,5-diene	NT	NT	Q3
beta-Myrcene	NT	NT	Q3
trans-Nerolidol	NT	NT	Q3
Ocimene	NT	NT	Q3
alpha-Pinene	NT	NT	Q3
beta-Pinene	NT	NT	Q3
Pulegone	NT	NT	Q3
Sabinene	NT	NT	Q3
Sabinene Hydrate	NT	NT	Q3
gamma-Terpinene	NT	NT	Q3
alpha-Terpinene	NT	NT	Q3
3-Carene	NT	NT	Q3
Terpineol	NT	NT	Q3
Terpinolene	NT	NT	Q3
Valencene	NT	NT	Q3
Nerol	NT	NT	Q3
cis-Nerolidol	NT	NT	Q3
Total Terpenes	NT	NT	Q3

Water Activity (Moisture Reactor) Analyzed: By:

	AW	Q
Compound		
Water Activity	NT	Q3

Moisture (Drying Oven) Analyzed: By:

	%	Q
Compound		
Percent Moisture	NT	Q3

pH Test (HannHI11310) Analyzed: By:

	NA	Q
Compound		
pH	NT	Q3

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Certificate of Analysis

00000003LCIN00627986

51 W. Weldon Ave

Phoenix, AZ

(480) 788-6644

www.desertvalleytesting.com

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QUALIFIER DEFINITIONS AND CASE NARRATIVE

- Q3 Testing results is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R 9-17-317.01(A) or labeling requirements in R9-17-317.
- D1 The limit of quantitation and the sample results were adjusted to reflect sample dilution.
- L1 The percent recovery of a laboratory control sample is greater than the acceptance limits, but the sample's target analytes are not detected above the maximum allowable concentrations for the analytes in the sample.
- M1 Matrix spike recovery is high, but the recovery from the laboratory control sample and duplicate are within acceptance criteria.
- M2 Matrix spike recovery is low, but the recovery from the laboratory control sample and duplicate are within acceptance criteria.
- N1 A description of any variances from the requirements in the QAP, the applicable SOPs, or that Administration made to ensure scientifically valid and defensible testing results, and the reason for the variance; see case narrative.
- R1 The relative percent difference (RPD) for the laboratory control sample and duplicate is more than 20%, but the percent recovery for the laboratory control sample and duplicate is within acceptance criteria.
- V1 Continuing Calibration Verification (CCV) or Quality Control Sample (QCS) recovery exceeds acceptable limits; but the sample's target analytes are not detected above the maximum allowable concentrations for the analytes in the sample.

Testing results were obtained according to requirements in the quality assurance plan in R 9-17-404.05, in the applicable standard operating procedure, and in R9-17- 404.03 or R9-17-404.04; A description of any variances from the requirements , and the reason for the variance will be described in the Work Order memo.

N1: MS does not meet acceptance criteria (propane)

N1-Full list pesticides not approved per ADHS rules on Apollo (LC-QQQ). All QC passes acceptance criteria (Dichlorvos).

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