

Mac 1g Daddy Hash Rosin

Sample ID: HR20190990256
Strain: Mac 1g Daddy Hash Rosin
Matrix: Concentrates & Extracts
Type: Rosin
Sample Size: 10 units; Batch: 712 units

Produced: 09/01/2019
Collected: 09/12/2019
Received: 09/12/2019
Completed: 09/18/2019
Batch#: 1481

Distributor
Santa Cruz Roots
Lic. # C11-0000400-LIC
140 W Dubois St, Suite B,
Santa Cruz, CA 95060

Producer
Pacwell Solutions
Lic. # CDPH-10002550
7697 Highway 1 Bldg 33 And 19, Moss
Landing, CA 95039



Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	09/17/2019	Pass
Terpenes	09/17/2019	Complete
Residual Solvents	09/13/2019	Pass
Microbials	09/16/2019	Pass
Mycotoxins	09/13/2019	Pass
Pesticides	09/13/2019	Pass
Heavy Metals	09/16/2019	Pass
Foreign Matter	09/13/2019	Pass

Cannabinoids

Pass



Analyte	LOD	LOQ	Result	Result
	%	%	%	mg/g
THCa	0.0033	0.0100	69.44	694.4
Δ9-THC	0.0033	0.0100	10.80	108.0
CBDa	0.0033	0.0100	ND	ND
CBD	0.0033	0.0100	ND	ND
CBN	0.0010	0.0025	ND	ND
CBG	0.0010	0.0025	0.10	1.0
Total THC			71.70	717.0
Total CBD			ND	ND
Total			80.34	803.4

Determination of Cannabinoids by HPLC, HL223

Total THC = THCa * 0.877 + Δ9-THC

Total CBD = CBDa * 0.877 + CBD

ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; 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. HL105.10-01



Ming Li

Ming Li - General Manager
09/18/2019

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Sampling Procedure: SOP HL 110.2; Foreign Material: UV light/Microscope SOP HL 323, SOP HL 324; Water Activity: Water Activity Meter SOP HL 238; Moisture: Drying Oven SOP HL217.1; All LQC ran in accordance with 16 CCR sec. 5730. This product has been tested by Harrens Lab Inc. using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Harrens Lab Inc. 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 Harrens Lab Inc. HL105.10-01

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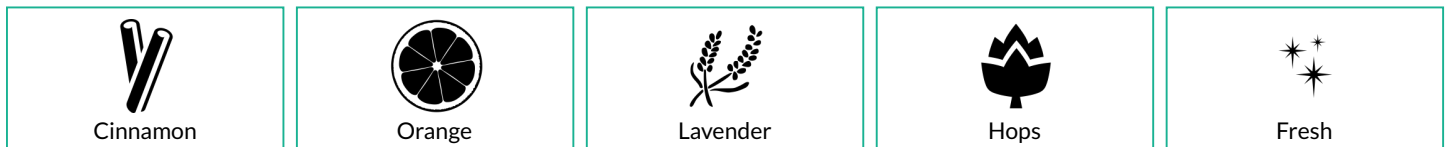
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Terpenes

Analyte	LOD	LOQ	Results	Results	
	%	%	%	mg/g	
β-Caryophyllene	0.0080	0.0100	0.879	8.79	
trans-Nerolidol	0.0080	0.0100	0.494	4.94	
δ-Limonene	0.0080	0.0100	0.418	4.18	
Linalool	0.0080	0.0100	0.237	2.37	
α-Humulene	0.0080	0.0100	0.210	2.10	
Borneol	0.0080	0.0100	0.168	1.68	
α-Terpineol	0.0080	0.0100	0.166	1.66	
Fenchol	0.0080	0.0100	0.157	1.57	
cis-Nerolidol	0.0080	0.0100	0.121	1.21	
β-Pinene	0.0080	0.0100	0.101	1.01	
Caryophyllene Oxide	0.0080	0.0100	0.057	0.57	
Geraniol	0.0080	0.0100	0.048	0.48	
β-Ocimene	0.0080	0.0100	0.026	0.26	
3-Carene	0.0080	0.0100	ND	ND	
α-Bisabolol	0.0080	0.0100	ND	ND	
α-Phellandrene	0.0080	0.0100	ND	ND	
α-Pinene	0.0080	0.0100	ND	ND	
α-Terpinene	0.0080	0.0100	ND	ND	
β-Myrcene	0.0080	0.0100	ND	ND	
Camphene	0.0080	0.0100	ND	ND	
Eucalyptol	0.0080	0.0100	ND	ND	
Fenchone	0.0080	0.0100	ND	ND	
γ-Terpinene	0.0080	0.0100	ND	ND	
Geranyl Acetate	0.0080	0.0100	ND	ND	
Guaiol	0.0080	0.0100	ND	ND	
Isopulegol	0.0080	0.0100	ND	ND	
Menthol	0.0080	0.0100	ND	ND	
Nerol	0.0080	0.0100	ND	ND	
Ocimene	0.0080	0.0100	ND	ND	
Pulegone	0.0080	0.0100	ND	ND	
p-Cymene	0.0080	0.0100	ND	ND	
Terpinolene	0.0080	0.0100	ND	ND	
Total			3.082	30.82	

Primary Aromas



ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. HL105.10-01. SOP HL228. GC-FID



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Ming Li - General Manager
09/18/2019

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Pesticides

Pass

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.03	0.1	0.1	ND	Pass	Fludioxonil	0.03	0.1	0.1	ND	Pass
Acephate	0.03	0.1	0.1	ND	Pass	Hexythiazox	0.03	0.1	0.1	ND	Pass
Acequinocyl	0.03	0.1	0.1	ND	Pass	Imazalil	0.03	0.1	0.03	ND	Pass
Acetamiprid	0.03	0.1	0.1	ND	Pass	Imidacloprid	0.03	0.1	5	ND	Pass
Aldicarb	0.03	0.1	0.03	ND	Pass	Kresoxim Methyl	0.03	0.1	0.1	ND	Pass
Azoxystrobin	0.03	0.1	0.1	ND	Pass	Malathion	0.03	0.1	0.5	ND	Pass
Bifenazate	0.03	0.1	0.1	ND	Pass	Metalaxyl	0.03	0.1	2	ND	Pass
Bifenthrin	0.03	0.1	3	ND	Pass	Methiocarb	0.03	0.1	0.03	ND	Pass
Boscalid	0.03	0.1	0.1	ND	Pass	Methomyl	0.03	0.1	1	ND	Pass
Captan	0.03	0.1	0.7	ND	Pass	Methyl Parathion	0.03	0.1	0.03	ND	Pass
Carbaryl	0.03	0.1	0.5	ND	Pass	Mevinphos	0.03	0.1	0.03	ND	Pass
Carbofuran	0.03	0.1	0.03	ND	Pass	Myclobutanil	0.03	0.1	0.1	ND	Pass
Chlorantraniliprole	0.03	0.1	10	ND	Pass	Naled	0.03	0.1	0.1	ND	Pass
Chlordane	0.03	0.1	0.03	ND	Pass	Oxamyl	0.03	0.1	0.5	ND	Pass
Chlorfenapyr	0.03	0.1	0.03	ND	Pass	Pacllobutrazol	0.03	0.1	0.03	ND	Pass
Chlorpyrifos	0.03	0.1	0.03	ND	Pass	Pentachloronitrobenzene	0.03	0.1	0.1	ND	Pass
Clofentezine	0.03	0.1	0.1	ND	Pass	Permethrin	0.03	0.1	0.5	ND	Pass
Coumaphos	0.03	0.1	0.03	ND	Pass	Phosmet	0.03	0.1	0.1	ND	Pass
Cyfluthrin	0.03	0.1	2	ND	Pass	Piperonyl Butoxide	0.03	0.1	3	ND	Pass
Cypermethrin	0.03	0.1	1	ND	Pass	Prallethrin	0.03	0.1	0.1	ND	Pass
Daminozide	0.03	0.1	0.03	ND	Pass	Propiconazole	0.03	0.1	0.1	ND	Pass
DDVP	0.03	0.1	0.03	ND	Pass	Propoxur	0.03	0.1	0.03	ND	Pass
Diazinon	0.03	0.1	0.1	ND	Pass	Pyrethrins	0.03	0.1	0.5	ND	Pass
Dimethoate	0.03	0.1	0.03	ND	Pass	Pyridaben	0.03	0.1	0.1	ND	Pass
Dimethomorph	0.03	0.1	2	ND	Pass	Spinetoram	0.03	0.1	0.1	ND	Pass
Ethoprophos	0.03	0.1	0.03	ND	Pass	Spinosad	0.03	0.1	0.1	ND	Pass
Etofenprox	0.03	0.1	0.03	ND	Pass	Spiromesifen	0.03	0.1	0.1	ND	Pass
Etoazole	0.03	0.1	0.1	ND	Pass	Spirotetramat	0.03	0.1	0.1	ND	Pass
Fenhexamid	0.03	0.1	0.1	ND	Pass	Spiroxamine	0.03	0.1	0.03	ND	Pass
Fenoxycarb	0.03	0.1	0.03	ND	Pass	Tebuconazole	0.03	0.1	0.1	ND	Pass
Fenpyroximate	0.03	0.1	0.1	ND	Pass	Thiacloprid	0.03	0.1	0.03	ND	Pass
Fipronil	0.03	0.1	0.03	ND	Pass	Thiamethoxam	0.03	0.1	5	ND	Pass
Fonicamid	0.03	0.1	0.1	ND	Pass	Trifloxystrobin	0.03	0.1	0.1	ND	Pass

Date Tested: 09/13/2019
We analyze samples by AOAC Official Method 2007.01-Modified; ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; 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. HL105.10-01



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Residual Solvents

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.5	1	1	ND	Pass
Acetone	0.5	10	5000	19.7	Pass
Acetonitrile	0.5	5	410	ND	Pass
Benzene	0.5	1	1	ND	Pass
Butane	0.5	25	5000	ND	Pass
Chloroform	0.5	1	1	ND	Pass
Ethanol	0.5	10	5000	<LOQ	Pass
Ethyl-Acetate	0.5	10	5000	ND	Pass
Ethyl-Ether	0.5	10	5000	ND	Pass
Ethylene Oxide	0.5	1	1	ND	Pass
Heptane	0.5	10	5000	<LOQ	Pass
Isopropanol	0.5	10	5000	18.4	Pass
Methanol	0.5	10	3000	<LOQ	Pass
Methylene-Chloride	0.5	1	1	ND	Pass
n-Hexane	0.5	10	290	<LOQ	Pass
Pentane	0.5	10	5000	ND	Pass
Propane	0.5	10	5000	ND	Pass
Toluene	0.5	10	890	ND	Pass
Trichloroethene	0.5	1	1	ND	Pass
Xylenes	0.5	10	2170	ND	Pass

ISO 17025 Accredited Laboratory

Date Tested: 09/13/2019
ND = Not Detected; SOP HL231. Headspace GC-FID



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Matrix: Concentrates & Extracts	Received: 09/12/2019	Lic. # C11-0000400-LIC	Lic. # CDPH-10002550
Type: Rosin	Completed: 09/18/2019	140 W Dubois St, Suite B,	7697 Highway 1 Bldg 33 And 19, Moss
Sample Size: 10 units; Batch: 712 units	Batch#: 1481	Santa Cruz, CA 95060	Landing, CA 95039

Microbials

Analyte	Results	Status
Aerobic Plate Count	NR	NT
Aspergillus flavus	Not Detected in 1g	Pass
Aspergillus fumigatus	Not Detected in 1g	Pass
Aspergillus niger	Not Detected in 1g	Pass
Aspergillus terreus	Not Detected in 1g	Pass
Shiga Toxin-producing E. coli	Not Detected in 1g	Pass
Salmonella sp.	Not Detected in 1g	Pass
Yeast & Mold	NR	NT

Date Tested: 09/16/2019

NR = Not Reported; Aerobic Bacteria refers to Aerobic Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 3. E.coli refers to E.coli Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 4. Coliforms refers to Coliform Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 4. Salmonella analysis method by Compact Dry SL, Hardy Diagnostics. Visual Mold inspection by UV light. 1= Mold Present, 0=Mold Not Present. Yeast and Mold Plate count method by AOAC no. 100401 or FDA BAM Jan 2001, Chapter 18. HL105.10-01. Salmonella and STEC: SOP HL 316. Aspergillus sp.: SOP HL311.2 (modified) & SOP HL 317.

Mycotoxins

Analyte	LOD µg/kg	LOQ µg/kg	Limit µg/kg	Results µg/kg	Status
Aflatoxin B1	5	10		ND	Tested
Aflatoxin B2	5	10		ND	Tested
Aflatoxin G1	5	10		ND	Tested
Aflatoxin G2	5	10		ND	Tested
Total Aflatoxins	5	10	20	ND	Pass
Total Ochratoxins	5	10	20	ND	Pass

Date Tested: 09/13/2019

SOP HL 240

Total Aflatoxins = Aflatoxin B1 + Aflatoxin B2 + Aflatoxin G1 + Aflatoxin G2. Each aflatoxin is tested individually.

Heavy Metals

Analyte	LOD µg/g	LOQ µg/g	Limit µg/g	Results µg/g	Status
Arsenic	0.07	0.20	0.2	ND	Pass
Cadmium	0.07	0.20	0.2	ND	Pass
Lead	0.17	0.50	0.5	ND	Pass
Mercury	0.03	0.10	0.1	ND	Pass

Date Tested: 09/16/2019

SOP HL 237



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09/18/2019

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