Pass

Harrens Lab Inc 3507 Breakwater Ave Hayward, CA 94545

(510) 887-8885 http://www.harrenslab.com Lic# C8-0000021-LIC DEA#: RH0490805

Chronic Marmalade

ISO 17025 Accredited Laboratory

Harrei

Metrc Sample: 1A40603000099ED000010637; Metrc Batch: 1A4060300001F41000000516

Sample ID: HR20201290278	Produced: 12/07/2020	Distributor	Producer		
Strain: Chronic Marmalade	Collected: 12/07/2020	Purple Star MD	Purple Star MD		
Matrix: Concentrates & Extracts	Received: 12/07/2020	Lic. # C11-000006-LIC	Lic. # CDPH-10002056		
Type: Other	Completed: 12/11/2020	2525 Phelps St	2525 Phelps St San Francisco, CA 94124		
Sample Size: 10 units; Batch: 1,021 units	Batch#: Co-20106	San Francisco, CA 94124			

	Summary		
	Test	Date Tested	Result
	Batch		Pass
	Cannabinoids	12/09/2020	Pass
MURSFACTORY	Terpenes	12/08/2020	Complete
	Residual Solvents	12/09/2020	Pass
	Microbials	12/09/2020	Pass
	Mycotoxins	12/09/2020	Pass
	Pesticides	12/08/2020	Pass
CA CLARATERING OF MIL	Heavy Metals	12/09/2020	Pass
	Foreign Matter	12/08/2020	Pass



	1.60%		ND Total CBD		92.45% Total Cannabinoids
Analyte	LOD	LOQ	Result	Result	
	%	%	%	mg/g	
THCa	0.0033	0.0100	79.70	797.0	
Δ9-THC	0.0033	0.0100	11.70	117.0	DOLATOLA
CBDa		0.0100	ND	ND	
CBD	0.0033	0.0100	ND	ND	
CBN	0.0010	0.0025	0.38	3.8	
CBG	0.0010	0.0025	0.67	6.7	
Total THC			81.60	816.0	
Total CBD			ND	ND	
Total			92.45	924.5	

1 Unit = g, 1g. Determination of Cannabinoids by HPLC, HL223 Total THC = THCa * $0.877 + \Delta 9$ -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



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Ming Li - General Manager 12/11/2020



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Sample Size: 10 units; Batch: 1,021 units	Batch#: Co-20106	San Francisco, CA 94124				

Terpenes

Analyte	LOD	LOQ	Results	Results	
	%	%	%	mg/g	
β-Caryophyllene	0.0080	0.0100	0.674	6.74	
δ-Limonene	0.0080	0.0100	0.670	6.70	
Fenchol	0.0080	0.0100	0.276	2.76	
α-Humulene	0.0080	0.0100	0.219	2.19	
β-Myrcene	0.0080	0.0100	0.152	1.52	
β-Pinene	0.0080	0.0100	0.138	1.38	
α-Pinene	0.0080	0.0100	0.107	1.07	
cis-Nerolidol	0.0080	0.0100	0.103	1.03	
Guaiol	0.0080	0.0100	0.070	0.70	
Camphene	0.0080	0.0100	0.040	0.40	
Isopulegol	0.0080	0.0100	0.036	0.36	
trans-Nerolidol	0.0080	0.0100	0.035	0.35	
Fenchone	0.0080	0.0100	0.031	0.31	
Borneol	0.0080	0.0100	0.029	0.29	
α-Bisabolol	0.0080	0.0100	0.027	0.27	
Geranyl Acetate	0.0080	0.0100	0.026	0.26	
Caryophyllene Oxide	0.0080	0.0100	0.018	0.18	
3-Carene	0.0080	0.0100	ND	ND	
α-Phellandrene	0.0080	0.0100	ND	ND	
α-Terpinene	0.0080	0.0100	ND	ND	
α-Terpineol	0.0080	0.0100	ND	ND	
β-Ocimene	0.0080	0.0100	ND	ND	
Eucalyptol	0.0080	0.0100	ND	ND	
y-Terpinene	0.0080	0.0100	ND	ND	
Geraniol	0.0080	0.0100	ND	ND	
Linalool	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			2.651	26.51	

Primary Aromas



Date Tested: 12/08/2020

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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Pesticides

LOD LOQ Results Status LOD Analyte Limit Analyte LOQ Limit Results Status µg/g µg/g µg/g µg/g µg/g µg/g µg/g µg/g Fludioxonil 0.1 Abamectin 0.1 0.1 ND Pass 0.1 ND Pass 0.03 0.1 0.1 ND 0.1 ND Acephate Pass Hexythiazox 0.1 Pass 0.03 0.1 0.1 ND Pass Imazalil 0.1 ND Acequinocyl Pass Imidacloprid Acetamiprid 0.1 0.1 ND Pass 0.1 5 ND Pass Aldicarb 0.1 ND Pass Kresoxim Methyl 0.1 0.1 ND Pass Azoxystrobin 0.1 0.1 ND Pass Malathion 0.1 ND Pass Bifenazate 0.1 ND Pass 0.1 2 ND 0.03 0.1 Metalaxyl Pass 0.1 ND Pass Pass Bifenthrin 0.03 3 Methiocarb 01 ND Boscalid 0.03 0.1 0.1 ND Pass Methomyl 0.1 ND Pass 1 Captan 0.1 ND Pass Mevinphos 0.1 ND Pass Carbaryl 0.1 ND Pass Myclobutanil 0.1 0.1 ND Pass 0.1 Carbofuran ND Pass Naled 0.1 0.1 ND Pass Chlorantraniliprole 0.1 10 ND Pass Oxamyl 0.1 ND Pass Chlordane 0.1 0.03 ND Pass Paclobutrazol 0.03 0.1 0.03 ND Pass ND Chlorfenapyr 0.1 Pass Parathion Methyl 0.1 ND Pass Pass Chlorpyrifos 0.1 ND Pass Pentachloronitrobenzene 0.1 0.1 ND Clofentezine 0.1 0.1 ND Pass Permethrin 0.1 ND Pass Coumaphos 0.1 0.03 ND Pass Phosmet 0.1 0.1 ND Pass Cyfluthrin 2 ND Pass **Piperonyl Butoxide** ND 0.1 0.1 Pass Cypermethrin ND Pass Prallethrin 0.1 ND 0.1 1 0.1 Pass Daminozide 0.1 0.03 ND Pass Propiconazole 0.1 0.1 ND Pass Diazinon 0.1 ND Pass Propoxur 0.1 ND Pass 0.1 ND ND Dichlorvos 0.03 Pass Pyrethrins 0.1 Pass 0.03 Pass 0.1 Dimethoate 0.1 ND Pyridaben 01 ND Pass 0.1 ND Pass 0.1 0.1 ND Dimethomorph 2 Spinetoram Pass Ethoprophos 0.03 0.1 ND Pass Spinosad 0.1 0.1 ND Pass Etofenprox 0.03 0.1 ND Pass Spiromesifen 0.1 0.1 ND Pass Etoxazole 0.03 0.1 0.1 ND Pass Spirotetramat 0.1 0.1 ND Pass 0.1 ND 0.1 ND Fenhexamid 0.03 0.1 Pass Spiroxamine 0.03 0.03 Pass 0.03 0.1 ND Pass Tebuconazole 0.1 0.1 ND Pass Fenoxycarb 0.03 0.1 0.1 ND Pass Thiacloprid 0.1 ND Pass Fenpyroximate 0.1 Thiamethoxam 0.1 5 ND Fipronil ND Pass Pass Flonicamid 0.03 0.1 0.1 ND Pass Trifloxystrobin 0.1 0.1 ND Pass

Date Tested: 12/08/2020

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

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

Date Tested: 12/09/2020 ND = Not Detected; SOP HL231. Headspace GC-FID



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Sample Size: 10 units; Batch: 1,021 units	Batch#: Co-20106	San Francisco, CA 94124	

Microbials

Pass

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 SPP	Not Detected in 1g	Pass
Yeast & Mold	NR	NT

Date Tested: 12/09/2020

Date Tested: 12/09/2020 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					Pass
Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.4	1		ND	Tested
Aflatoxin B2	0.4	1		ND	Tested
Aflatoxin G1	0.4	1		ND	Tested
Aflatoxin G2	0.4	1		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.4	1	20	ND	Pass

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

Heavy Metals					Pass
Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
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: 12/09/2020 SOP HL 237

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12/11/2020



