

Sample Name: Calm Pain Relief Roll-On - Lot#19SM1034

LIMS Sample ID: 190730M002

Batch #:

Sample Metric ID:

Sample Type: Liquid Topical, Topical

Batch Count:

Sample Count:

Unit Mass: 10 Grams per Unit

Serving Mass:

Density: 0.8942 g/mL

Date Collected: 07/30/2019

Date Received: 07/30/2019

Tested for: Star Manufacturing, LLC

License #:

Address:

Produced by:

License #:

Address:

Overall result for batch: Pass

Moisture Test Results

	Results (%)
Moisture	NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Cannabinoid Test Results

07/30/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
CBD	116.017	11.6017	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBN	ND	ND	0.0009 / 0.003
CBDV	0.346	0.0346	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	ND	ND	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
THCV	ND	ND	0.0004 / 0.001
Δ8THC	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
THCVa	ND	ND	0.0013 / 0.004
CBL	ND	ND	0.0021 / 0.006
CBCa	ND	ND	0.0015 / 0.005

Sum of Cannabinoids:	116.363	11.6363	1163.630 mg/Unit
Total THC (Δ9THC+0.877*THCa)	ND	ND	ND
Total CBD (CBD+0.877*CBDa)	116.017	11.6017	1160.170 mg/Unit

Δ9THC per Unit	Action Limit mg	Pass	ND
Δ9THC per Serving	1000.0		

Batch Photo



Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
□ Bisabolol	NT		
□ Pinene	NT		
□ Carene	NT		
□ Borneol	NT		
□ Caryophyllene	NT		
□ Geraniol	NT		
□ Humulene	NT		
□ Terpinolene	NT		
□ Valencene	NT		
□ Menthol	NT		
□ Nerolidol	NT		
□ Camphene	NT		
□ Eucalyptol	NT		
□ Cedrene	NT		
□ Camphor	NT		
□ (-)-Isopulegol	NT		
□ Sabinene	NT		
□ Terpinene	NT		
□ Terpinene	NT		
□ Linalool	NT		
□ Limonene	NT		
□ Myrcene	NT		
□ Fenchol	NT		
□ Phellandrene	NT		
□ Caryophyllene Oxide	NT		
□ Terpineol	NT		
□ Pinene	NT		
□ R-(+)-Pulegone	NT		
□ Geranyl Acetate	NT		
□ Citronellol	NT		
□ p-Cymene	NT		
□ Ocimene	NT		
□ Guaiol	NT		
□ Phytol	NT		
□ Isoborneol	NT		

Total Terpene Concentration: NT

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
 Authority: Section 26013, Business and Professions Code.
 Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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 Sample must be marked as public to be viewable

Josh Wurzer
 Josh Wurzer, President

Date: 07/31/2019

CoA ID: 190730M002-001 - Page 1 of 3

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Pesticide Test Results - Pass

07/31/2019

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	Pass ND	0.3	0.030 / 0.091
Acephate	Pass ND	5.0	0.013 / 0.039
Acequinocyl	Pass ND	4.0	0.010 / 0.031
Acetamiprid	Pass ND	5.0	0.013 / 0.038
Azoxystrobin	Pass ND	40.0	0.015 / 0.047
Bifenazate	Pass ND	5.0	0.012 / 0.035
Bifenthrin	Pass ND	0.5	0.013 / 0.038
Boscalid	Pass 0.043	10.0	0.008 / 0.023
Captan	Pass ND	5.0	0.099 / 0.300
Carbaryl	Pass ND	0.5	0.014 / 0.043
Chlorantraniliprole	Pass ND	40.0	0.020 / 0.061
Clofentezine	Pass ND	0.5	0.009 / 0.027
Cyfluthrin	Pass ND	1.0	0.099 / 0.299
Cypermethrin	Pass ND	1.0	0.030 / 0.091
Diazinon	Pass ND	0.2	0.009 / 0.027
Dimethomorph	Pass ND	20.0	0.018 / 0.055
Etoxazole	Pass ND	1.5	0.007 / 0.022
Fenhexamid	Pass ND	10.0	0.015 / 0.045
Fenpyroximate	Pass ND	2.0	0.012 / 0.036
Flonicamid	Pass ND	2.0	0.022 / 0.066
Fludioxonil	Pass ND	30.0	0.020 / 0.061
Hexythiazox	Pass ND	2.0	0.009 / 0.027
Imidacloprid	Pass ND	3.0	0.017 / 0.050
Kresoxim-methyl	Pass ND	1.0	0.010 / 0.029
Malathion	Pass ND	5.0	0.006 / 0.019
Metalaxyl	Pass ND	15.0	0.011 / 0.033
Methomyl	Pass ND	0.1	0.022 / 0.067
Myclobutanil	Pass ND	9.0	0.015 / 0.044
Naled	Pass ND	0.5	0.010 / 0.031
Oxamyl	Pass ND	0.2	0.014 / 0.042
Pentachloronitrobenzene	Pass ND	0.2	0.020 / 0.061
Permethrin	Pass ND	20.0	0.027 / 0.082
Phosmet	Pass ND	0.2	0.010 / 0.030
Piperonylbutoxide	Pass ND	8.0	0.007 / 0.020
Prallethrin	Pass ND	0.4	0.011 / 0.032
Propiconazole	Pass ND	20.0	0.004 / 0.013
Pyrethrins	Pass ND	1.0	0.012 / 0.036
Pyridaben	Pass ND	3.0	0.007 / 0.020
Spinetoram	Pass ND	3.0	0.006 / 0.017
Spinosad	Pass ND	3.0	0.010 / 0.031
Spiromesifen	Pass ND	12.0	0.005 / 0.015
Spirotetramat	Pass ND	13.0	0.014 / 0.042
Tebuconazole	Pass ND	2.0	0.006 / 0.018
Thiamethoxam	Pass ND	4.5	0.011 / 0.033
Trifloxystrobin	Pass ND	30.0	0.007 / 0.020

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Pesticide Test Results - Pass

07/31/2019

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	Pass ND	ND	0.030 / 0.091
Carbofuran	Pass ND	ND	0.029 / 0.089
Chlordane	Pass ND	ND	0.032 / 0.097
Chlorfenapyr	Pass ND	ND	0.030 / 0.090
Chlorpyrifos	Pass ND	ND	0.029 / 0.089
Coumaphos	Pass ND	ND	0.029 / 0.089
Daminozide	Pass ND	ND	0.030 / 0.091
DDVP (Dichlorvos)	Pass ND	ND	0.029 / 0.089
Dimethoate	Pass ND	ND	0.029 / 0.089
Ethoprop(hos)	Pass ND	ND	0.029 / 0.089
Etofenprox	Pass ND	ND	0.029 / 0.089
Fenoxycarb	Pass ND	ND	0.029 / 0.089
Fipronil	Pass ND	ND	0.029 / 0.089
Imazalil	Pass ND	ND	0.029 / 0.089
Methiocarb	Pass ND	ND	0.029 / 0.089
Methyl parathion	Pass ND	ND	0.029 / 0.089
Mevinphos	Pass ND	ND	0.029 / 0.089
Paclobutrazol	Pass ND	ND	0.029 / 0.089
Propoxur	Pass ND	ND	0.029 / 0.089
Spiroxamine	Pass ND	ND	0.029 / 0.089
Thiacloprid	Pass ND	ND	0.029 / 0.089

Heavy Metal Test Results - Pass

07/30/2019

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	Pass ND	0.5	0.012 / 0.035
Lead	Pass ND	0.5	0.031 / 0.095
Arsenic	Pass ND	1.5	0.013 / 0.039
Mercury	Pass ND	3.0	0.002 / 0.005

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Josh Wurzer, President
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Address:

Overall result for batch: Pass

Residual Solvent Test Results - Pass

07/31/2019

Note

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

		Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	Pass	ND	1.0	0.111 / 0.336
Benzene	Pass	ND	1.0	0.043 / 0.132
Chloroform	Pass	ND	1.0	0.064 / 0.195
Ethylene Oxide	Pass	ND	1.0	0.136 / 0.413
Methylene chloride	Pass	ND	1.0	0.172 / 0.521
Trichloroethylene	Pass	ND	1.0	0.040 / 0.120
Acetone	Pass	ND	5000.0	14.703 / 44.549
Acetonitrile	Pass	ND	410.0	2.727 / 8.262
Butane	Pass	ND	5000.0	5.672 / 17.185
Ethanol		ND		11.775 / 35.679
Ethyl acetate	Pass	ND	5000.0	16.227 / 49.169
Ethyl ether	Pass	ND	5000.0	11.608 / 35.172
Heptane	Pass	ND	5000.0	12.982 / 39.336
Hexane	Pass	ND	290.0	1.816 / 5.502
Isopropyl Alcohol		ND		15.358 / 46.536
Methanol	Pass	ND	3000.0	15.584 / 47.220
Pentane	Pass	<LOQ	5000.0	12.355 / 37.434
Propane	Pass	ND	5000.0	1.359 / 4.117
Toluene	Pass	ND	890.0	7.174 / 21.736
Total Xylenes	Pass	ND	2170.0	34.438 / 104.347

Microbiological Test Results - Pass

07/31/2019

PCR and fluorescence detection of microbiological impurities

		Results	Action Limit
Shiga toxin-producing Escherichia coli	Pass	ND	ND
Salmonella spp.	Pass	ND	ND
Aspergillus fumigatus		NT	
Aspergillus flavus		NT	
Aspergillus niger		NT	
Aspergillus terreus		NT	

Foreign Material Test Results

NT

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CoA ID: 190730M002-001 - Page 3 of 3