

Sample Name: Pacha
 LIMS Sample ID: 190812S001
 Batch #: CSEG - 19001
 Sample Metric ID:
 Sample Type: CBD Oil, Product Inhalable
 Batch Count:
 Sample Count:
 Unit Mass:
 Serving Mass:
 Density:

Date Collected: 08/12/2019
 Date Received: 08/12/2019
 Tested for: Pachamama CBD
 License #:
 Address:
 Produced by:
 License #:
 Address:

Overall result for batch CSEG -: Pass

Moisture Test Results

Moisture	Results (%)
	NT

Water Activity Test Results

Water Activity	Results (Aw)	Action Limit Aw
	NT	

Cannabinoid Test Results

08/13/2019

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

	mg/g	%	LOD / LOQ mg/g
Δ9THC	ND	ND	0.052 / 0.158
THCa	ND	ND	0.052 / 0.156
CBD	959.600	95.9600	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBN	8.251	0.8251	0.052 / 0.157
CBDV	3.593	0.3593	0.021 / 0.063
CBDVa	ND	ND	0.037 / 0.111
CBG	4.883	0.4883	0.030 / 0.092
CBGa	ND	ND	0.044 / 0.133
THCV	ND	ND	0.023 / 0.069
Δ8THC	ND	ND	0.053 / 0.162
CBC	15.344	1.5344	0.031 / 0.094
THCVa	ND	ND	0.091 / 0.276
CBL	ND	ND	0.130 / 0.393
CBCa	ND	ND	0.129 / 0.392

Sum of Cannabinoids: 991.671 99.1671

Total THC (Δ9THC+0.877*THCa) ND
 Total CBD (CBD+0.877*CBDa) 959.600 95.960

Action Limit mg

Δ9THC per Unit
 Δ9THC per Serving

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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Josh Wurzer

Josh Wurzer, President
 Date: 08/14/2019

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Overall result for batch CSEG -: Pass

Pesticide Test Results - Pass

08/14/2019

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	0.1	0.030 / 0.091
Acephate	Pass	ND	0.1	0.013 / 0.039
Acequinocyl	Pass	ND	0.1	0.010 / 0.031
Acetamiprid	Pass	ND	0.1	0.013 / 0.038
Azoxystrobin	Pass	ND	0.1	0.015 / 0.047
Bifenazate	Pass	ND	0.1	0.012 / 0.035
Bifenthrin	Pass	<LOQ	3.0	0.013 / 0.038
Boscalid	Pass	ND	0.1	0.008 / 0.023
Captan	Pass	ND	0.7	0.099 / 0.300
Carbaryl	Pass	ND	0.5	0.014 / 0.043
Chlorantraniliprole	Pass	ND	10.0	0.020 / 0.061
Clofentezine	Pass	ND	0.1	0.009 / 0.027
Cyfluthrin	Pass	ND	2.0	0.099 / 0.299
Cypermethrin	Pass	ND	1.0	0.030 / 0.091
Diazinon	Pass	ND	0.1	0.009 / 0.027
Dimethomorph	Pass	ND	2.0	0.018 / 0.055
Etoxazole	Pass	ND	0.1	0.007 / 0.022
Fenhexamid	Pass	ND	0.1	0.015 / 0.045
Fenpyroximate	Pass	ND	0.1	0.012 / 0.036
Fonicamid	Pass	ND	0.1	0.022 / 0.066
Fludioxonil	Pass	ND	0.1	0.020 / 0.061
Hexythiazox	Pass	ND	0.1	0.009 / 0.027
Imidacloprid	Pass	ND	5.0	0.017 / 0.050
Kresoxim-methyl	Pass	ND	0.1	0.010 / 0.029
Malathion	Pass	ND	0.5	0.006 / 0.019
Metalaxyl	Pass	ND	2.0	0.011 / 0.033
Methomyl	Pass	ND	1.0	0.022 / 0.067
Myclobutanil	Pass	ND	0.1	0.015 / 0.044
Naled	Pass	ND	0.1	0.010 / 0.031
Oxamyl	Pass	ND	0.5	0.014 / 0.042
Pentachloronitrobenzene	Pass	ND	0.1	0.020 / 0.061
Permethrin	Pass	ND	0.5	0.027 / 0.082
Phosmet	Pass	ND	0.1	0.010 / 0.030
Piperonylbutoxide	Pass	ND	3.0	0.007 / 0.020
Prallethrin	Pass	ND	0.1	0.011 / 0.032
Propiconazole	Pass	ND	0.1	0.004 / 0.013
Pyrethrins	Pass	ND	0.5	0.012 / 0.036
Pyridaben	Pass	ND	0.1	0.007 / 0.020
Spinetoram	Pass	ND	0.1	0.006 / 0.017
Spinosad	Pass	ND	0.1	0.010 / 0.031
Spiromesifen	Pass	ND	0.1	0.005 / 0.015
Spirotetramat	Pass	ND	0.1	0.014 / 0.042
Tebuconazole	Pass	ND	0.1	0.006 / 0.018
Thiamethoxam	Pass	ND	5.0	0.011 / 0.033
Trifloxystrobin	Pass	ND	0.1	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

08/14/2019

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

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

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

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Josh Wurzer, President

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CoA ID: 190812S001-001 - Page 2 of 3

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Overall result for batch CSEG -: Pass

Residual Solvent Test Results - Pass

08/14/2019

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	Pass ND	5000.0	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	Pass ND	5000.0	15.358 / 46.536
Methanol	Pass ND	3000.0	15.584 / 47.220
Pentane	Pass 176.195	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

PCR and fluorescence detection of microbiological impurities

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

Foreign Material Test Results


NT

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