



Accreditation No. 102356
 Certificate No. L19-215
 ISO/IEC 17025:2017 Accredited



(760) 230-9080
 info@certusanalytics.com
 26359 Jefferson Ave
 Murrieta, CA 92562
 Lic# C8-18-0000049-TEMP

Sample Name: PO-002 Lavender 300mg CBD

Sample ID: 1905CER0325.1027
 Strain: Lavender 300mg CBD
 Matrix: Concentrates & Extracts
 Type: Other
 Sample Size: 1 units; Batch:

Produced:
 Collected:
 Received: 05/09/2019
 Completed: 05/10/2019
 Batch#: 0513719

Client
Automated Turnkey Packaging Solutions
 Lic. #
 13625 Alma Ave
 Gardena, CA 90249

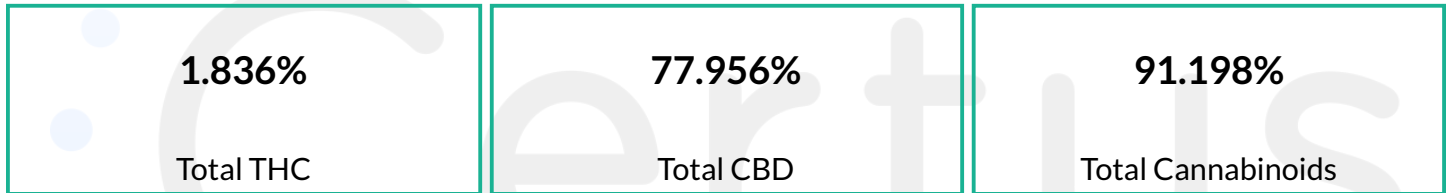


Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	05/09/2019	Complete
Terpenes	05/09/2019	Complete
Microbials	05/09/2019	Pass
Pesticides	05/10/2019	Pass
Heavy Metals	05/09/2019	Pass

Cannabinoids

Complete



Analyte	LOD	LOQ	Result	Result
	%	%	%	mg/g
THCa	0.010	0.050	1.770	17.70
Δ9-THC	0.010	0.050	0.284	2.84
Δ8-THC	0.010	0.050	ND	ND
THCV	0.010	0.050	0.169	1.69
CBDa	0.010	0.050	83.251	832.51
CBD	0.010	0.050	4.945	49.45
CBN	0.010	0.050	ND	ND
CBGa	0.010	0.050	0.648	6.48
CBG	0.010	0.050	ND	ND
CBC	0.010	0.050	0.132	1.32
Total THC			1.836	18.36
Total CBD			77.956	779.56
Total			91.198	911.98

Total THC = THCa * 0.877 + Δ9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; ND = Not Detected; The reported flower/trim results are based on a sample dry-weight as required by California Code of Regulations Title 16 Division 42 section 5724; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Cannabinoids Analytical Method: HPLC SOP-024



Mike Tunis

Mike Tunis
 Laboratory Manager
 05/10/2019

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Terpenes


Analyte	LOD %	LOQ %	Mass %	Mass mg/g	
Linalool	0.004	0.004	1.777	17.77	
Ocimene	0.004	0.004	1.342	13.42	
β-Myrcene	0.004	0.004	0.843	8.43	
β-Ocimene	0.004	0.004	0.705	7.05	
β-Caryophyllene	0.004	0.004	0.498	4.98	
δ-Limonene	0.004	0.004	0.371	3.71	
cis-Nerolidol	0.004	0.004	0.315	3.15	
δ-3-Carene	0.004	0.004	0.246	2.46	
α-Pinene	0.004	0.004	0.244	2.44	
α-Humulene	0.004	0.004	0.213	2.13	
p-Cymene	0.004	0.004	0.174	1.74	
Terpinolene	0.004	0.004	0.101	1.01	
α-Bisabolol	0.004	0.004	0.063	0.63	
Eucalyptol	0.004	0.004	0.050	0.50	
β-Pinene	0.004	0.004	0.046	0.46	
Guaiol	0.004	0.004	0.039	0.39	
α-Terpinene	0.004	0.004	0.037	0.37	
γ-Terpinene	0.004	0.004	0.036	0.36	
Camphene	0.004	0.004	0.025	0.25	
Geraniol	0.010	0.010	0.018	0.18	
trans-Nerolidol	0.004	0.004	0.009	0.09	
Isopulegol	0.004	0.004	0.007	0.07	
Caryophyllene Oxide	0.004	0.004	0.006	0.06	
Total			7.165	71.65	


Primary Aromas


 Lavender


 Earthy


 Hops


 Cinnamon


 Orange



Mike Tunis

Mike Tunis
 Laboratory Manager
 05/10/2019

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Pesticides

Pass

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

Date Tested: 05/10/2019

LOQ = Limit of Quantitation; 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 BCC in 16 CCR section 5719. Pesticides Analytical Method: LCMS & GCMS SOP-025



Mike Tunis

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 Laboratory Manager
 05/10/2019

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Matrix: Concentrates & Extracts	Received: 05/09/2019	Lic. #
Type: Other	Completed: 05/10/2019	13625 Alma Ave
Sample Size: 1 units; Batch:	Batch#: 0513719	Gardena, CA 90249

Microbials

Pass

Analyte

Result

Aspergillus	CFU/g
Shiga toxin-producing E. Coli	Not Detected in 1g
Salmonella	Not Detected in 1g



Date Tested: 05/09/2019

LOQ = Limit of Quantitation; CFU/g = Colony Forming Units per Gram; Unless otherwise stated all quality control samples performed within specifications established by the BCC in 16 CCR section 5720. Microbial Analytical Method: qPCR SOP-007



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 05/10/2019

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Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
Arsenic	µg/g 0.05	µg/g 0.05	µg/g 0.2	µg/g ND	Pass
Cadmium	0.05	0.05	0.2	ND	Pass
Lead	0.05	0.05	0.5	ND	Pass
Mercury	0.01	0.03	0.1	ND	Pass



Date Tested: 05/09/2019

LOQ = Limit of Quantitation; 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 BCC in 16 CCR section 5723. Heavy Metals Analytical Method: ICPMS SOP-042. The addition of metals to our scope is pending.



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