



Certificate of Analysis

Sample:KN20825007-001
Harvest/Lot ID: 13623
Batch#: 0082-2ISX
Seed to Sale# N/A
Batch Date: 08/19/22
Sample Size Received: 30 ml
Total Batch Size: N/A
Retail Product Size: 30 ml
Ordered : 08/19/22
Sampled : 08/19/22
Completed: 09/02/22
Sampling Method: N/A

PASSED

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Sep 02, 2022 | Carmens Medicinals

1241 Stirling Rd Suite 101
Dania Beach , FL, 33004, US



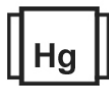
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtth
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

Total value per 30 ML



Cannabinoid

PASSED



Total THC

0.2711%

Total THC/Bottle : 81.33 mg



Total CBD

21.4533%

Total CBD/Bottle : 6435.99 mg



Total Cannabinoids

25.5207%

Total Cannabinoids/Bottle : 7656.21 mg

	CBDV	CBDa	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	0.1186	0.0195	<0.01	3.3676	21.4362	0.0371	0.1093	ND	0.2711	<0.01	ND	0.1613	<0.01	ND	ND	ND
mg/ml	1.186	0.195	<0.1	33.676	214.362	0.371	1.093	ND	2.711	<0.1	ND	1.613	<0.1	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 2692

Weight: 0.2106g

Extraction date: 08/26/22 13:56:54

Extracted by: 2692

Analysis Method : Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCa: 9.5%, TOTAL THC 11. 1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution.

Analytical Batch : KN002822POT

Instrument Used : HPLC E-SHI-008

Running on : N/A

Reviewed On : 08/29/22 10:12:16

Batch Date : 08/25/22 10:50:28

Dilution : N/A

Reagent : 062422.02; 063022.R01; 063022.R02

Consumables : 294033242; n/a; 947.109 B9291.271; 12265-115CC-115

Pipette : E-GIL-010; E-EPP-081

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis). *Based on FL action limits.

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Sue Ferguson

Lab Director

State License # n/a
ISO Accreditation # 17025:2017



Signature

09/02/22

Signed On



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Email: info@carmensmedicinals.com

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Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD (%)	mg/ml	%	Result (%)	Terpenes	LOD (%)	mg/ml	%	Result (%)	
TRANS-CARYOPHYLLENE	0.007	3.538	0.3538		HEXAHYDROTHYMOL	0.007	4.91	0.491		
GUAIOL	0.007	ND	ND		EUCALYPTOL	0.007	0.498	0.0498		
LIMONENE	0.007	2.434	0.2434		ISOBORNEOL	0.007	ND	ND		
LINALOOL	0.007	ND	ND		FARNESENE	0.007	<0.2	<0.02		
NEROL	0.007	ND	ND		FENCHONE	0.007	ND	ND		
OCIMENE	0.007	<0.2	<0.02		GAMMA-TERPINENE	0.007	ND	ND		
ALPHA-PHELLANDRENE	0.007	ND	ND		GERANIOL	0.007	ND	ND		
PULEGONE	0.007	<0.2	<0.02							
SABINENE	0.007	ND	ND		Weight:	1.0179g	Extraction date:	08/26/22 10:54:18	Extracted by:	138
SABINENE HYDRATE	0.007	ND	ND		Analysis Method :	SOP.T.40.090	Reviewed On :	09/02/22 18:02:24	Batch Date :	08/25/22 09:59:08
TERPINEOL	0.007	ND	ND		Analytical Batch :	KN002820TER	Instrument Used :	E-SHI-109 Terpenes	Running on :	N/A
TERPINOLENE	0.007	ND	ND		Dilution :	10	Reagent :	N/A	Consumables :	N/A
GERANYL ACETATE	0.007	ND	ND		Pipette :	N/A	Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending			
TRANS-NEROLIDOL	0.007	ND	ND							
VALENCENE	0.007	ND	ND							
ISOPULEGOL	0.007	ND	ND							
ALPHA-HUMULENE	0.007	0.94	0.094							
ALPHA-PINENE	0.007	0.462	0.0462							
ALPHA-TERPINENE	0.007	ND	ND							
BETA-MYRCENE	0.007	2.413	0.2413							
BETA-PINENE	0.007	1.464	0.1464							
BORNEOL	0.013	ND	ND							
CAMPHENE	0.007	ND	ND							
CAMPHOR	0.013	ND	ND							
CARYOPHYLLENE OXIDE	0.007	0.221	0.0221							
CEDROL	0.007	ND	ND							
ALPHA-BISABOLOL	0.007	0.817	0.0817							
ALPHA-CEDRENE	0.007	ND	ND							
CIS-NEROLIDOL	0.007	ND	ND							
3-CARENE	0.007	ND	ND							
FENCHYL ALCOHOL	0.007	ND	ND							
Total (%)				1.7697						



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 Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						

Analyzed by: 2803	Weight: 0.5119g	Extraction date: 08/30/22 19:54:27	Extracted by: 2803
Analysis Method : SOP.T.30.060, SOP.T.40.060		Reviewed On : 09/02/22 12:54:12	
Analytical Batch : KN002842PES		Batch Date : 08/30/22 13:11:31	
Instrument Used : E-SHI-125 Mycotoxins			
Running on : N/A			
Dilution : 0.01			
Reagent : 062422.02; 110521.04; 060122.01; 050222.R30			
Consumables : 294033242; K130252; n/a; 21332MO; n/a; 241572; 210419634			
Pipette : E-VWR-116; E-VWR-118; E-VWR-119			

Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits.



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Batch# : 0082-2ISX
Sampled : 08/19/22
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Sample Size Received : 30 ml
Total Batch Size : N/A
Completed : 09/02/22 Expires: 09/02/23
Sample Method : SOP Client Method
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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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Analysis Method : SOP.T.40.032 Analytical Batch : KN002819SOL Instrument Used : E-SHI-106 Residual Solvents Running on : N/A	Reviewed On : 09/02/22 18:02:03 Batch Date : 08/25/22 09:43:30
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Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Residual solvents analysis is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). *Based on FL action limits.

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Sue Ferguson Lab Director State License # n/a ISO Accreditation # 17025:2017	09/02/22 <hr/> Signed On
 Signature	



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Sample Method : SOP Client Method
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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 2657, 2368	Weight: 1.0327g	Extraction date: 08/25/22 15:41:25	Extracted by: 2657
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Analysis Method : SOP.T.40.043	Reviewed On : 09/01/22 15:05:15
Analytical Batch : KN002825MIC	Batch Date : 08/25/22 12:58:33
Instrument Used : Micro E-HEW-069	
Running on : N/A	

Dilution : N/A
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 2803, 12	Weight: 0.5119g	Extraction date: 09/01/22 21:59:56	Extracted by: 2803
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Analysis Method : SOP.T.30.060, SOP.T.40.060	Reviewed On : 09/01/22 22:04:46
Analytical Batch : KN002857MYC	Batch Date : 09/01/22 21:07:28
Instrument Used : E-SHI-125 Mycotoxins	
Running on : N/A	

Dilution : N/A
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMSMS. LOQ 5.0 ppb).
 *Based on FL action limits.

	Heavy Metals	PASSED
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Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by: 138, 12	Weight: 0.2714g	Extraction date: 08/26/22 16:07:52	Extracted by: 138
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Analysis Method : SOP.T.40.050, SOP.T.30.052	Reviewed On : 08/31/22 21:11:26
Analytical Batch : KN002823HEA	Batch Date : 08/25/22 11:52:33
Instrument Used : Metals ICP/MS	
Running on : N/A	

Dilution : 50
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



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	Filth/Foreign Material	PASSED
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Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by:	Weight:	Extraction date:	Extracted by:
2368, 2657	0.512g	08/25/22 16:22:25	2657

Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : KN002824FIL
Instrument Used : E-AMS-138 Microscope
Running on : N/A

Reviewed On : 08/29/22 16:59:44
Batch Date : 08/25/22 12:57:45


Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is use for inspection.

Sue Ferguson

Lab Director

State License # n/a
ISO Accreditation # 17025:2017



Signature

09/02/22

Signed On