



# Certificate of Analysis

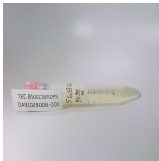
**SAMPLE:DA91028008-001**  
**Harvest/Lot ID: 7727**  
 Seed to Sale #N/A  
**Batch#: S568164**  
**Sample Size: 10.5 ml**  
**Ordered : 10/22/19**  
**Sampled : 10/22/19**  
**Completed: 10/30/19 Expires: 10/30/20**  
**Sampling Method: SOP Client Method**

Oct 30, 2019 | TEC Biosciences Inc.  
 838 E. High Street #202 Lexington Kentucky,

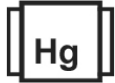


**PASSED**

PRODUCT IMAGE SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
**NOT TESTED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**TESTED**

MISC.

CANNABINOID RESULTS

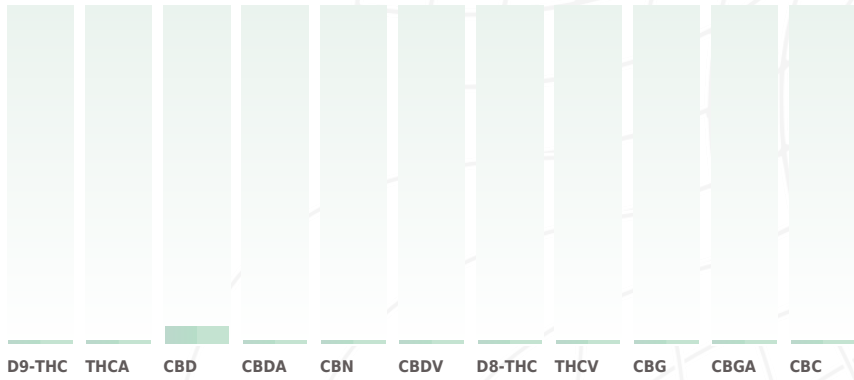


Total THC  
**0.200%**



Total CBD  
**5.020%**

0.200 %	ND	5.000 %	0.023 %	0.018 %	0.020 %	ND	ND	0.058 %	ND	0.226 %
2.000 mg/g	ND	50.000 mg/g	0.230 mg/g	0.180 mg/g	0.200 mg/g	ND	ND	0.580 mg/g	ND	2.260 mg/g



Cannabinoid Profile Test

<b>Analyst</b> 64	<b>Weight</b> 3.0503g	<b>Sample Prep :</b> 2019-10-28 01:10:53	<b>Extracted By :</b> 574
<b>Analysis Method -SOP.T.40.020, SOP.T.30.050</b>			
<b>Analytical Batch -DA007492</b>			
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	
102819.R21 102819.R17 102419.R05 102419.R04	400	76124-662 SFN-BX-1025 849C4-849AK 840C6-840H	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

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**Jorge Segredo**  
Lab Director

State License # n/a  
ISO Accreditation # 97164



Signature

10/30/2019

Signed On



# Certificate of Analysis

**PASSED**
**TEC Biosciences Inc.**

 838 E. High Street #202 Lexington  
 Kentucky,

**Telephone:** (859) 287-0300

**Email:**  
 jacob.roney@tecbiosciences.com

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**Sample Method :** SOP Client Method

**3**

**Terpenes**
**TESTED**
**Terpenes**
**TEST RESULT (%)**

ALPHA-CEDRENE	ND
ALPHA-HUMULENE	ND
ALPHA-PINENE	ND
ALPHA-TERPINENE	ND
BETA-MYRCENE	ND
BETA-PINENE	ND
BORNEOL	ND
CAMPHENE	ND
CAMPHOR	ND
CARYOPHYLLE OXIDE	ND
CEDROL	ND
ALPHA-BISABOLOL	0.043
ISOPULEGOL	ND
CIS-NEROLIDOL	ND
3-CARENE	ND
FENCHYL ALCOHOL	ND
HEXAHYDROTHYMOL	ND
EUCALYPTOL	ND
ISOBORNEOL	ND
FARNESENE	ND
FENCHONE	ND
GAMMA-TERPINENE	ND
GERANIOL	ND
GERANYL ACETATE	ND
GUAJOL	ND
LIMONENE	ND
LINALOOL	ND
NEROL	ND
OCIMENE	ND
ALPHA-PHELLANDRENE	ND
PULEGONE	ND
SABINENE	ND
SABINENE HYDRATE	ND

**Terpenes**
**TEST RESULT (%)**

TERPINEOL	ND
TERPINOLENE	ND
TRANS-CARYOPHYLLENE	ND
TRANS-NEROLIDOL	ND
VALENCENE	ND


**Terpenes**
**TESTED**

<b>Analyst</b> 585	<b>Weight</b> 1.0510g	<b>Sample Prep :</b> 2019-10-28 03:10:33	<b>Extracted By :</b> 585
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**Analysis Method -SOP.T.40.090**  
**Analytical Batch -DA007474**

Reagent	Dilution	Consums. ID
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Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

**Total**                      0.043

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**Sample Method :** SOP Client Method

**4**

**Pesticides**
**PASSED**

Pesticides	LOQ	Action Level	Units	Result	Pesticides	LOQ	Action Level	Units	Result
CHLORDANE	0.010	0.1	ppm	ND	METHIOCARB	0.010	0.05	ppm	ND
CAPTAN	0.100	0.7	ppm	ND	METHOMYL	0.010	0.1	ppm	ND
DIMETHOATE	0.010	0.1	ppm	ND	DIAZANON	0.010	0.1	ppm	ND
ABAMECTIN B1A	0.020	0.1	ppm	ND	MEVINPHOS	0.010	0.1	ppm	ND
CIS-PERMETHRIN	0.050	0.1	ppm	ND	MYCLOBUTANIL	0.010	0.1	ppm	ND
SPINETORAM	0.010		PPM	ND	NALED	0.010	0.25	ppm	ND
ACEPHATE	0.010	0.1	ppm	ND	OXAMYL	0.010	0.5	ppm	ND
DIMETHOMORPH	0.005	0.2	ppm	ND	PACLOBUTRAZOL	0.010	0.1	ppm	ND
ETHOPROPHOS	0.010	0.1	ppm	ND	TRANS-PERMETHRIN	0.050	0.1	ppm	ND
ACEQUINOCYL	0.050	0.1	ppm	ND	PHOSMET	0.010	0.1	ppm	ND
ACETAMIPRID	0.010	0.1	ppm	ND	PIPERONYL BUTOXIDE	0.010	3	ppm	ND
ETOFENPROX	0.010	0.1	ppm	ND	PRALLETHRIN	0.050	0.1	ppm	ND
ALDICARB	0.020	0.1	ppm	ND	PROPICONAZOLE	0.010	0.1	ppm	ND
ETOXAZOLE	0.010	0.1	ppm	ND	PROPOXUR	0.010	0.1	ppm	ND
AZOXYSTROBIN	0.010	0.01	ppm	ND	PYRETHRIN I	0.010	0.5	ppm	ND
FENHEXAMID	0.010	0.1	ppm	ND	PYRIDABEN	0.010	0.2	ppm	ND
BIFENAZATE	0.010	0.1	ppm	ND	SPINOSAD (SPINOSYN A)	0.010	0.1	ppm	ND
FENOXYCARB	0.010	0.1	ppm	ND	SPINOSAD (SPINOSYN D)	0.010	0.1	ppm	ND
FENPYROXIMATE	0.010	0.1	ppm	ND	SPIROMESIFEN	0.010	0.1	ppm	ND
BIFENTHRIN	0.010	0.1	ppm	ND	SPIROTETRAMAT	0.020	0.1	ppm	ND
CARBARYL	0.010	0.5	ppm	ND	SPIROXAMINE	0.010	0.1	ppm	ND
FIPRONIL	0.020	0.1	ppm	ND	TEBUCONAZOLE	0.010	0.1	ppm	ND
FLONICAMID	0.010	0.1	ppm	ND	THIACLOPRID	0.010	0.1	ppm	ND
CARBOFURAN	0.010	0.1	ppm	ND	THIAMETHOXAM	0.010	0.5	ppm	ND
CHLORANTRANILIPROLE	0.010	1	ppm	ND	TRIFLOXYSTROBIN	0.010	0.1	ppm	ND
FLUDIOXONIL	0.010	0.1	ppm	ND					
HEXYTHIAZOX	0.010	0.1	ppm	ND					
CHLORFENAPYR	0.010	0.1	ppm	ND					
IMAZALIL	0.010	0.1	ppm	ND					
CHLORPYRIFOS	0.010	0.1	ppm	ND					
IMIDACLOPRID	0.010	0.4	ppm	ND					
CLOFENTEZINE	0.010	0.2	ppm	ND					
KRESOXIM-METHYL	0.010	0.1	ppm	ND					
COUMAPHOS	0.005	0.1	ppm	ND					
MALATHION	0.010	0.2	ppm	ND					
CYPERMETHRIN	0.020	0.5	ppm	ND					
DAMINOZIDE	0.020	0.1	ppm	ND					
METALAXYL	0.010	0.02	ppm	ND					
DICHLORVOS	0.050	0.1	ppm	ND					


**Pesticides**
**PASSED**
**Analyst** 585 **Weight** 1.0130g **Sample Prep :** 2019-10-28 03:10:13 **Extracted By :** 1082

**Analysis Method -** SOP.T.30.065, SOP.T.40.065  
**Analytical Batch -** DA007504

**Reagent** **Dilution** 10 **Consums. ID**
SOP T.30.065, SOP T.40.065
**Jorge Segredo**  
 Lab Director

 State License # n/a  
 ISO Accreditation # 97164



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**Sample Method :** SOP Client Method

**5**



**Residual Solvents**

**PASSED**



**Residual Solvents**

**PASSED**

SOLVENT	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
PROPANE	2100	PASS	ND
BUTANES (N-BUTANE)	2000	PASS	ND
ETHYLENE OXIDE	5	PASS	ND
METHANOL	250	PASS	ND
ETHANOL	5000	PASS	ND
PENTANES (N-PENTANE)	750	PASS	ND
ETHYL ETHER	500	PASS	ND
ACETONE	750	PASS	ND
2-PROPANOL	500	PASS	ND
ACETONITRILE	60	PASS	ND
METHYLENE CHLORIDE	125	PASS	ND
N-HEXANE	250	PASS	ND
ETHYL ACETATE	400	PASS	ND
BENZENE	1	PASS	ND
HEPTANE	500	PASS	ND
TOLUENE	150	PASS	ND
CHLOROFORM	2	PASS	ND
1,2-DICHLOROETHANE	2	PASS	ND
TRICHLOROETHYLENE	25	PASS	ND
1,1-DICHLOROETHENE	8	PASS	ND
TOTAL XYLENES	150	PASS	ND

<b>Analyst</b> 850	<b>Weight</b> 0.0221g	<b>Sample Prep :</b> 2019-10-28 03:10:50	<b>Extracted By :</b> 850
<b>Analysis Method -SOP.T.40.032</b>			
<b>Analytical Batch -DA007517</b>			

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 24151941

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

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**Sample Method : SOP Client Method**
**6**


PASSED

Hg

PASSED

Analyte	Result	Action Level
AFLATOXIN G2	ND	
AFLATOXIN G1	ND	
AFLATOXIN B2	ND	
AFLATOXIN B1	ND	
OCHRATOXIN A+	ND	0.02
TOTAL AFLATOXINS	0.000	0.02

**Analysis Method -SOP.T.30.065, SOP.T.40.065**
**Analytical Batch -DA007505**


PASSED

Analyte
ASPERGILLUS_FLAVUS
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_TERREUS
ESCHERICHIA_COLI_SHIGELLA_SPP
SALMONELLA_SPECIFIC_GENE

**Result**  
 not present in 1 gram.  
 not present in 1 gram.  
 not present in 1 gram.  
 not present in 1 gram.  
 not present in 1 gram.

Reagent	Dilution	Consums. ID
102819.R04	50	
100919.R02		
102119.R02		
102119.R03		
052419.01		

Metal	Result	Action Level
ARSENIC	ND	0.2
CADMIUM	ND	0.2
LEAD	ND	0.5
MERCURY	ND	0.1

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -DA007487**

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

**Jorge Segredo**  
 Lab Director

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