

# CERTIFICATE OF ANALYSIS

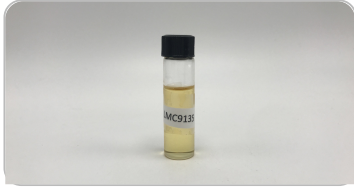


Order #: 30607  
 Order Name: Lemon Cake  
 350mg  
 Batch#: LMC9135  
 Completed: 05/06/2019

Arise Bioscience Inc.  
 4855 Technology Way Suite 500  
 Boca Raton Florida, 33431  
 (866) 407-1164



## Sample

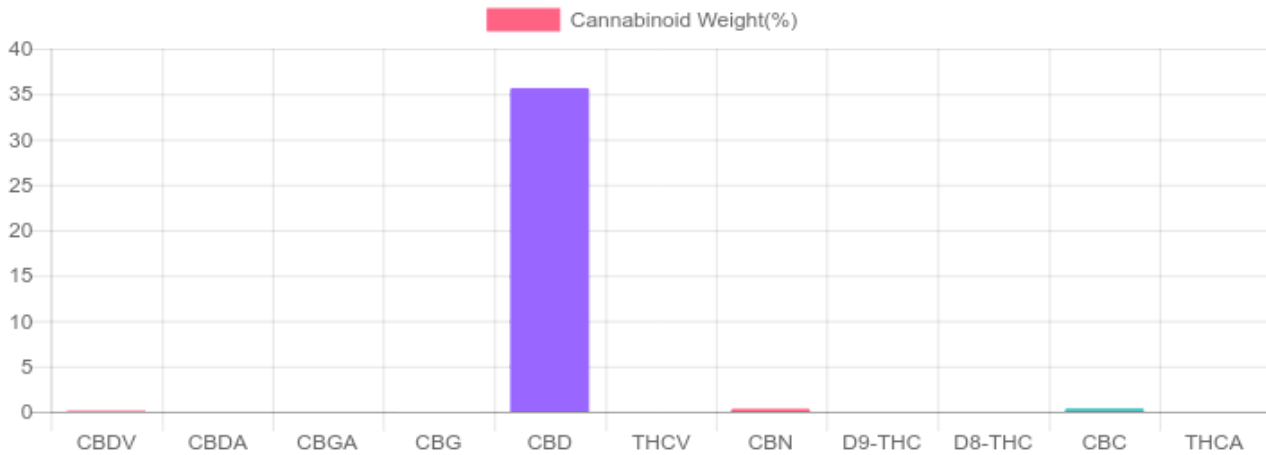


0.000%  
D9-THC

35.631%  
Total CBD

## Cannabinoids Test

cannabinoids		weight(%)	mg/g
DELTA-9-TETRAHYDROCANNABINOL	D9-THC	N/D	N/D
TETRAHYDROCANNABINOLIC ACID	THCA	N/D	N/D
CANNABIDIOL	CBD	35.631%	356.307
CANNABIDIOLIC ACID	CBDA	N/D	N/D
CANNABIDIVARIN	CBDV	0.099%	0.991
CANNABICHROMENE	CBC	0.352%	3.518
CANNABINOL	CBN	0.314%	3.144
CANNABIGEROL	CBG	0.014%	0.138
CANNABIGEROLIC ACID	CBGA	N/D	N/D
DELTA-8-TETRAHYDROCANNABINOL	D8-THC	N/D	N/D
TETRAHYDROCANNABIVARIN	THCV	N/D	N/D
TOTAL D9-THC		N/D	N/D
TOTAL CBD*		35.631%	356.307
TOTAL CANNABINOIDS		36.410%	364.100



\*Total CBD = CBD + CBDA x 0.877



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*Dylan Swart*  
 Dylan Swart, Lab Director

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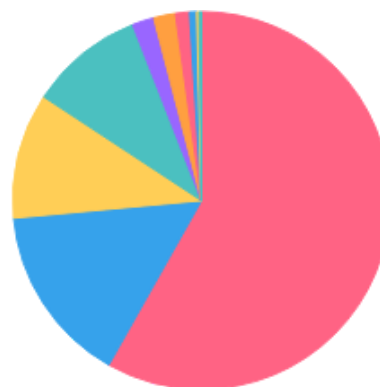


## TERPENES: TOTAL (1.499%)

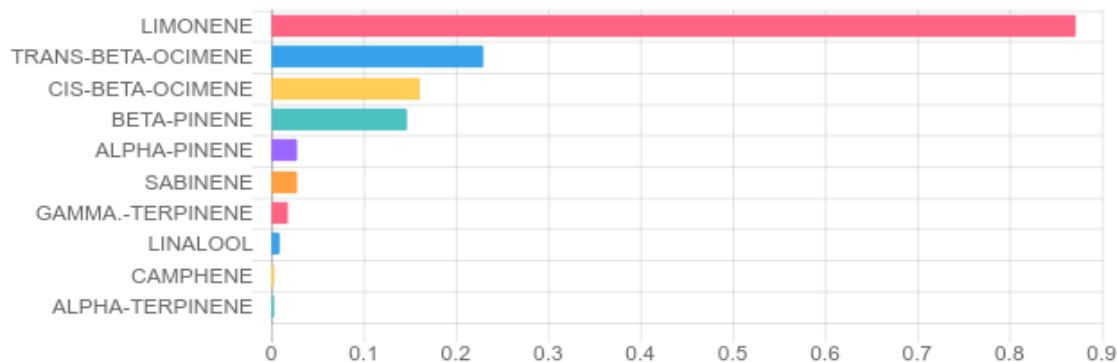
GC-Headspace - Shimadzu GCMS QP2020 with HS20

Terpene	Results (%)
ALPHA-PINENE	0.028%
ALPHA-TERPINENE	0.003%
BETA-PINENE	0.147%
CAMPHENE	0.003%
CIS-BETA-OCIMENE	0.161%
GAMMA.-TERPINENE	0.018%
LIMONENE	0.872%
LINALOOL	0.009%
SABINENE	0.028%
TRANS-BETA-OCIMENE	0.230%

## Terpenes Breakdown



## Top Terpenes Results:



## Tested for but not present:

(1R)-ENDO-(+)-FENCHYL ALCOHOL, 3-CARENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-PHELLANDRENE, BETA-MYRCENE, BORNEOL (MIX OF ISOMERS), CAMPHOR, CAMPHOR (MIX OF ISOMERS), CARYOPHYLLENE, CARYOPHYLLENE OXIDE, CEDROL, CIS-NEROLIDOL, EUCALYPTOL, FENCHONE, FENCHONE (ISOMER), GAMMA-TERPINEOL, GERANIOL, GERANYL ACETATE, GUAJOL, HUMULENE, ISOBORNEOL, ISOPULEGOL, MENTHOL, NEROL, PULEGONE, SABINENE HYDRATE, TERPINEOL (MIX OF ISOMERS), TERPINOLENE, TRANS-NEROLIDOL, VALENCENE



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## PESTICIDE ANALYSIS:

GC QQQ - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.003	0.001
ACEPHATE	0.100	N/D	0.003	0.001
ACEQUINOCYL	0.100	N/D	0.003	0.001
ACETAMIPRID	0.100	N/D	0.003	0.001
ALDICARB	0.100	N/D	0.003	0.001
AZOXYSTROBIN	0.100	N/D	0.003	0.001
BIFENAZATE	0.100	N/D	0.003	0.001
BIFENTHRIN	3.000	N/D	0.003	0.001
BOSCALID	0.100	N/D	0.003	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.003	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.003	0.001
CHLORPYRIFOS	0.100	N/D	0.003	0.001
CLOFENTEZINE	0.100	N/D	0.003	0.001
DAMINOZIDE	0.100	N/D	0.003	0.001
DIAZANON	0.100	N/D	0.003	0.001
DICHLORVOS	0.100	N/D	0.003	0.001
DIMETHOATE	0.100	N/D	0.003	0.001
DIMETHOMORPH	2.000	N/D	0.003	0.001
ETHOPROPHOS	0.100	N/D	0.003	0.001
ETOFENPROX	0.100	N/D	0.003	0.001
ETOXAZOLE	0.100	N/D	0.003	0.001
FENHEXAMID	0.100	N/D	0.003	0.001
FENOXYCARB	0.100	N/D	0.003	0.001
FENPYROXIMATE	0.100	N/D	0.003	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	0.100	N/D	0.003	0.001
FLUDIOXONIL	0.100	N/D	0.003	0.001
HEXYTHIAZOX	0.100	N/D	0.003	0.001

## PESTICIDE ANALYSIS:

GC QQQ - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.003	0.001
IMIDACLOPRID	5.000	N/D	0.003	0.001
KRESOXIM-METHYL	0.100	N/D	0.003	0.001
MALATHION	0.500	N/D	0.003	0.001
METALAXYL	2.000	N/D	0.003	0.001
METHIOCARB	0.100	N/D	0.003	0.001
METHOMYL	1.000	N/D	0.003	0.001
MEVINPHOS	0.100	N/D	0.003	0.001
MYCLOBUTANIL	0.100	N/D	0.003	0.001
NALED	0.100	N/D	0.003	0.001
OXAMYL	0.500	N/D	0.003	0.001
PACLOBUTRAZOL	0.100	N/D	0.003	0.001
PERMETHRINS	0.500	N/D	0.003	0.001
PHOSMET	0.100	N/D	0.003	0.001
PIPERONYL BUTOXIDE	3.000	0.010	0.003	0.001
PRALLETHRIN	0.100	N/D	0.003	0.001
PROPICONAZOLE	0.100	N/D	0.003	0.001
PROPOXUR	0.100	N/D	0.003	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.003	0.001
PYRIDABEN	0.100	N/D	0.003	0.001
SPINETORAM	0.100	N/D	0.003	0.001
SPINOSAD	0.100	N/D	0.003	0.001
SPIROMESIFEN	0.100	N/D	0.003	0.001
SPIROTETRAMAT	0.100	N/D	0.003	0.001
SPIROXAMINE	0.100	N/D	0.003	0.001
TEBUCONAZOLE	0.100	N/D	0.003	0.001
THIACLOPRID	0.100	N/D	0.003	0.001
THIAMETHOXAM	5.000	N/D	0.003	0.001
TRIFLOXYSTROBIN	0.100	N/D	0.003	0.001

N/D = Not Detected, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



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## RESIDUAL SOLVENTS:

GC-Headspace - Shimadzu GCMS QP2020 with HS20

Residual Solvent	Action Level (ppm)	Results (ppm)
ACETONE	5,000.000	N/D
ACETONITRILE	410.000	N/D
BENZENE	1.000	N/D
BUTANE	5,000.000	N/D
CHLOROFORM	1.000	N/D
DICHLOROETHANE	1.000	N/D
DICHLOROMETHANE	1.000	N/D
ETHANOL	5,000.000	N/D
ETHYL ACETATE	5,000.000	N/D
ETHYL ETHER	5,000.000	N/D
ISOPROPYL ALCOHOL	5,000.000	N/D
METHANOL	3,000.000	N/D
N-HEPTANE	5,000.000	N/D
N-HEXANE	290.000	N/D
PENTANE	5,000.000	N/D
PROPANE	5,000.000	N/D
TOLUENE	890.000	N/D
TRICHLOROETHANE	1.000	N/D
XYLENES	2,170.000	N/D



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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060

Analyte	Action Lvl (ppb)	Results (ppb)
AFLATOXIN B1	20.000	N/D
AFLATOXIN B2	20.000	N/D
AFLATOXIN G1	20.000	N/D
AFLATOXIN G2	20.000	N/D
OCHRATOXIN A	20.000	N/D

## Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200.000	3.730
CADMIUM (CD)	200.000	< LOQ
MERCURY (HG)	100.000	8.580
LEAD (PB)	500.000	6.870

\*Lower Limit of Quantitation (LOQ) is 1 ppb

## Microbial Analysis:

PCR - Agilent AriaMX

Test	Test Method Used	Device Used	LOD	Allowable Amount	Actual Result	Pass/Fail
STEC E. COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	PASS

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

\* STEC and Salmonella run as Multiplex

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA



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