



Certificate of Analysis

Jul 26, 2021



**LIONHEART
CBD**

Sample: DE10719002-003
Harvest/Lot ID: N/A
Seed to Sale# 1A4000B00010D25000000394
Batch Date: N/A
Batch#: MIC/TAC/TEB
Sample Size Received: 20 units
Total Weight/Volume: N/A
Retail Product Size: N/A gram
Ordered : 07/15/21
sampled : 07/15/21
Completed: 07/26/21 Expires: 07/26/22
Sampling Method: SOP-024

PASSED

Page 1 of 2

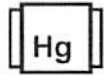
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
NOT TESTED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
NOT TESTED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity
NOT TESTED



Terpenes
NOT TESTED

CANNABINOID RESULTS



**Total THC
0.000%**



**Total CBD
0.055%**



**Total Cannabinoids
0.055%**



CBDV	CBDVA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA
ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LOD	0.00000257	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

Cannabinoid Profile Test

Analyzed by 8	Weight 4.3915g	Extraction date : 07/21/21 11:07:34	Extracted By : 1642
Analysis Method -SOP-020 (R15)	Reviewed On - 07/22/21 10:13:42	Batch Date : 07/21/21 11:00:58	
Analytical Batch -DE002179POT	Instrument Used :	Running On : 07/21/21 11:51:59	

Dilution

40

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.



Certificate of Analysis

PASSED

615 Wooten Rd Suite 110
Colorado Springs, CO, 80915, US
Telephone: 719-574-2159

Email:
christopher.didomenico@foliumbiosciences.com
License #:

Sample : DE10719002-003
Harvest/LOT ID: N/A

Batch# : MIC/TAC/TEB
Sampled : 07/15/21
Ordered : 07/15/21

Sample Size Received : 20 units
Total Weight/Volume : N/A
Completed : 07/26/21 Expires: 07/26/22
Sample Method : SOP-024

Page 2 of 2



Microbials

PASSED

Analyte	LOD	Result
TOTAL_YEAST_AND_MOLD		not present in 1 gram.
SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC		not present in 1 gram.
SALMONELLA_SPECIES		not present in 1 gram.
TOTAL_AEROBIC	930	
TOTAL_ENTEROBACTERIACEAE	0	

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE002177MIC Batch Date : 07/20/21
Instrument Used : Microbial - Full Panel
Running On : 07/20/21

Analyzed by	Weight	Extraction date	Extracted By
6	4.58g	07/20/21	1473

Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
072021.R01	062921.R15	080720.02	060421.18	61564-106C6-106H	1
071621.R02	050521.02	070721.08	071021.R02	40898-021C4-021AI	NT10-1212
052021.R16	100419.03	071721.01	072321.R01	656767-E-23427	2
063021.R06	070721.01	071921.R01	072221.R02	05821015	3
041421.R12	070821.01	052620.04	060421.19	0	00102
061521.R11	052421.02	022221.29	12211-108CC-108	CH_2048639	

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.



Mycotoxins

PASSED

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.303	ppb	ND	20
AFLATOXIN G1	0.180	ppb	ND	20
AFLATOXIN B2	0.0904	ppb	ND	20
AFLATOXIN B1	1.327	ppb	ND	20
OCHRATOXIN A+	0.0491	ppb	ND	20
AFLATOXINS		ppb	0.000	20

Analysis Method -SOP-060 (R5)
Analytical Batch -DE002166MYC | Reviewed On - 07/26/21 14:26:08
Instrument Used :
Running On :
Batch Date : 07/17/21 10:19:07

Analyzed by	Weight	Extraction date	Extracted By
1696	0.1518g	07/21/21 04:07:24	1696

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.



Heavy Metals

PASSED

Reagent	Dilution	Consums. ID
060821.09	50	018C4-018D
071421.R03		040CB-040D
071421.R02		12211-108CC-108
071921.R11		234422
071921.R12		
071921.01		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.0020	ppm	0.044	1.5
CADMIUM	0.0016	ppm	0.021	0.5
MERCURY	0.0035	ppm	ND	1
LEAD	0.0101	ppm	0.033	1

Analyzed by	Weight	Extraction date	Extracted By
7	0.2101g	07/22/21 09:07:50	666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE002178HEA | Reviewed On - 07/22/21 10:38:51
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 07/22/21 09:45:41
Batch Date : 07/20/21 15:57:04

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).