CERTIFICATE OF ANALYSIS

PRODUCT NAME: PRODUCT STRENGTH: FILL LOT NUMBER: BEST BY DATE: SOFTGEL LOT NUMBER: CBD Softgels with Curcumin 25 mg CBD / 10 mg Curcumin 2021901 02/06/2022 GC325GEËEGÁÁÔUÞUGEËJHGËS

Click on the links to view third-party reports				
		Physical Atttributes		
Test	Method	Specification	Results	
Color	SOP-100	Bright Red to Pink	PASS	
Odor	SOP-100	N/A	PASS	
Appearance	SOP-100	Dry, ovoid softgel capsules in container with lid and shrinkband	PASS	
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS	
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS	

Review of Third-Party Analysis

Panel	Method	Specification	Results	Pass/Fail
Potency - Total CBD	SOP-111	23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	<u>26.8mg</u>	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	<u>>LOD</u>	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	<u>>LOD</u>	PASS
Microbial - Yeast/Mold	SOP-111	Complies with USP 61/62	≥LOD	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by:

Kei Horikawa

08/17/2020

Kei Horikawa Quality Control Manager

Date

QA-FRM2-0005 Rev. 01 COA GCC3-X-Y-A

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Soft Gels Curcumin, 25mg CBD/10mg Curcumin PRODUCT CODE: GCC3-X-Y-A

LOT NUMBER: GC/C32520-02

DATE OF MANUFACTURE: 26FEB2020

EXPIRATION DATE: 26AUG2021

(DDMMMYYYY)

(Expiration date is 18 months under sealed conditions.)

INGREDIENTS:

Composition of Fill: Polysorbate 80, Polysorbate 20, Fractionated Coconut Oil, Broad Spectrum CBD Hemp Oil, β-Caryophyllene, Curcuminoids

Composition of the Shell: Bovine-derived Gelatin, Glycerin, Water

Parameter	Method ¹	Specification	Res	sults	
Appearance	QCU002	Oval soft gelatin capsule	P	ass	
Color		Dark Red	Pass		
Cannabinoids	75	LOQ (ppm)	Wt. (%)	(mg/g)	
CBD		20	4.379	43.79	
CBD-A		20	< LOQ	< LOQ	
Δ9-THC		5	< LOQ	< LOQ	
THC-A		5	< LOQ	< LOQ	
CBN		5	< LOQ	< LOQ	
CBN-A		5	< LOQ	< LOQ	
CBG	QCU001	5	0.067	0.67	
CBC	(UHPLC-	5	< LOQ	< LOQ	
CBC-A	DAD)	5	< LOQ	< LOQ	
Δ8-THC	-	5	< LOQ	< LOQ	
CBDV	-	5	< LOQ	< LOQ	
CBDV-A		5	< LOQ	< LOQ	
THCV	-	5	< LOQ	< LOQ	
Potency – Total CBD	-	90 – 110% of Labelled		BD/softgel	
-	_	Claim for CBD		belled Claim	
Total THC		0.0%	0.	0%	
Identity – CBD		Retention Time ± 0.05min of Standard	-0.0	2 min	
Curcumin Content	HPLC-DAD	80 – 120% of Labelled	8 mg Curci	umin/softgel	
		Claim for Curcumin	82% of La	belled Claim	
Terpenes ²	GC/FID & LC/MS	Refer to Oil Specification	Refer to Oil	Specification	
Pesticides ²	LC/MS & GC/MS	Refer to Oil Specification	Refer to Oil	Specification	
Residual Solvents ²	USP <467>	Refer to Oil Specification	Refer to Oil	Specification	
Elemental Impurities: ²	USP <2232>	Refer to Oil Specification	Refer to Oil	Specification	
Microbial Limits:2	USP<2032>	Refer to Oil Specification	Refer to Oil	Specification	
		a	1 1200		

Notes: ¹according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3nd party contract laboratory method.² Testing performed on bulk oil. ND=Not Detected, I.OQ=Limit of Quantification, I.OD=Limit of Detection

PLEASE NOTE: Curcumin is naturally bright yellow in color and tends to stain anything it comes into contact with. Any discoloration of the packaging, container or skin that the curcumin product touches is natural and expected. The yellow coloration is not a reflection of the product quality or indicative of any defect.



This product is not intended to diagnose, treat, cure, or prevent any disease and has not been evaluated by the FDA. Phone: 719-574-2159

1 of 2



Order #: 46380 Order Name: Imperial Oil 019_932 A Batch#: Imperial Oil 019_932 A Received: 01/16/2020 Completed: 01/20/2020



Sample

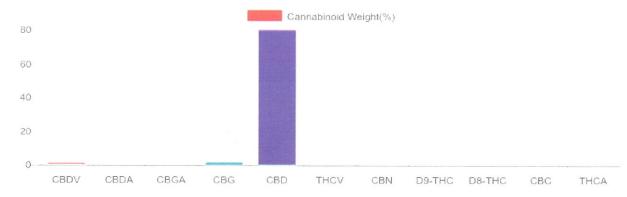


N/D D9-THC

79.708% Total CBD

Cannabinoids Test

GSL SOP 400	PREPARED: 01/16/2020 17:28:57	UPLOADED:	01/17/2020 16:17:
Cannabinoids	LOQ	weight(%)	mg/g
D9-THC	10 PPM	N/D	N/D
THCA	10 PPM	N/D	N/D
CBD	10 PPM	79.658%	796.582
CBDA	20 PPM	0.057%	0.570
CBDV	20 PPM	0.431%	4.314
CBC	10 PPM	N/D	N/D
CBN	10 PPM	0.009%	0.086
CBG	10 PPM	1.404%	14.040
CBGA	20 PPM	N/D	N/D
D8-THC	10 PPM	N/D	N/D
THCV	10 PPM	N/D	N/D
TOTAL D9-THC		N/D	N/D
TOTAL CBD*		79.708%	797.082
TOTAL CANNABINOID	S	81.559%	815.592



Reporting Limit 10 ppm *Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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Released as : CON020-932-K JMB 31Jan2020



Order #: 46380 Order Name: Imperial Oil 019_932 A Batch#: Imperial Oil 019_932 A Received: 01/16/2020 Completed: 01/20/2020



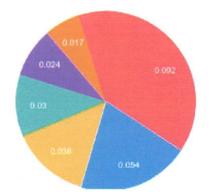
TERPENES: TOTAL (0.268%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

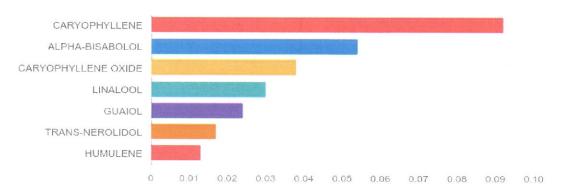
Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-BISABOLOL	0.054%	0.0067%	0.0063%
CARYOPHYLLENE	0.092%	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.038%	0.0067%	0.0063%
GUAIOL	0.024%	0.0067%	0.0063%
HUMULENE	0.013%	0.0067%	0.0063%
LINALOOL	0.030%	0.0067%	0.0063%
TRANS-NEROLIDOL	0.017%	0.0067%	0.0063%

GSL SOP 404 Prepared: 01/16/2020 18:03:06 Uploaded: 01/17/2020 09:24:13

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, P-CYMENE, CIS-BETA-OCIMENE, GAMMA.-TERPINENE, TERPINOLENE, ISOPULEGOL, GERANIOL, CIS-NEROLIDOL

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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Released as:

CON020-932-K

JM3 31Jan 2020



Pagedofs

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Order #: 46380 Order Name: Imperial Oil 019_932 A Batch#: Imperial Oil 019_932 A Received: 01/16/2020 Completed: 01/20/2020



RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405 Prepared: 01/16/2020 18:04:06 Uploaded: 01/17/2020 09:11:59

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ACETONE	5,000	B/LOQ	140	20
ACETONITRILE	410	N/D	25	1
BENZENE	1	N/D	1	0.5
BUTANE	5,000	N/D	50	10
CHLOROFORM	1	N/D	1	0.5
DICHLOROETHANE	1	N/D	1	0.5
DICHLOROMETHANE	1	N/D	1	0.5
ETHANOL	5,000	166	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
SOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	100	20
N-HEPTANE	5,000	BILOQ	140	20
N-HEXANE	290	N/D	18	10
PENTANE	5,000	N/D	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	N/D	53	1
TRICHLOROETHENE	1	N/D	0	0
XYLENES	2,170	N/D	130	20

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Info
Ben Witten, MS, MT., Lab Director

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Released as: Page 3075 CON020-932-K JMB 31, Jan 2020



Order #: 46380 Order Name: Imperial Oil 019_932 A Batch#: Imperial Oil 019_932 A Received: 01/16/2020 Completed: 01/20/2020



Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030 GSL SOP 403

Uploaded: 01/17/2020 21:19:55

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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Released as: Page425 CON020-932-K IMB 31Jan2820

Pesticide

FLUDIOXONIL



Order #: 46380 Order Name: Imperial Oil 019_932 A Batch#: Imperial Oil 019_932 A Received: 01/16/2020 Completed: 01/20/2020



LOD

(ppm)

0.001

LOQ

(ppm)

0.003

PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 01/16/2020 17:30:47

UPLOADED: 01/20/2020 10:49:59

Results

(ppm)

N/D

Action Level

(ppm)

0.100

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level	Results	LOQ	LOD
	(ppm)	(ppm)	(ppm)	(ppm)
FIPRONIL	0.100	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001
ACETAMIPRID	0.100	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001
BIFENAZATE	0.100	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001
BOSCALID	0.100	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.001	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZANON	0.100	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.001	0.001
DIMETHOMORPH	2.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001
ETOXAZOLE	0.100	N/D	0.010	0.005
FENHEXAMID	0.100	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	0.100	0.060	0.001	0.001
FLONICAMID	0.100	N/D	0.025	0.010
HEXYTHIAZOX	0.100	N/D	0.005	0.001
IMAZALIL	0.100	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMIDACLOPRID	5.000	N/D	0.005	0.001
KRESOXIM-METHYL	0.100	N/D	0.010	0.005
MALATHION	0.500	N/D	0.005	0.001
METALAXYL	2.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	1.000	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	0.100	N/D	0.005	0.001
NALED	0.100	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.001	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.001
PERMETHRINS	0.500	N/D	0.005	0.001
PHOSMET	0.100	N/D	0.005	0.001
PIPERONYL	3.000	N/D	0.001	0.001
BUTOXIDE	3.000	N/L	0.001	0.001
PRALLETHRIN	0.100	N/D	0.005	0.005
PROPICONAZOLE	0.100	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.005	0.005
PYRIDABEN	0.100	N/D	0.005	0.001
SPINETORAM	0.100	N/D	0.001	0.001
SPINOSAD	0.100	N/D	0.001	0.001
SPIROMESIFEN	0.100	N/D	0.005	0.001
SPIROTETRAMAT	0.100	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	0.001
TEBUCONAZOLE	0.100	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.001	0.001
THIAMETHOXAM	5.000	N/D	0.001	0.001
TRIFLOXYSTROBIN	0.100	N/D	0.001	0.001

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

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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Released as! Pase505 CON020-932-K JMB SUGNOODO



To:

1755 Victory Blvd. Glendale, CA 91201 Tel: 818.547.3221 Email: acculab@accubclabs.com www.accubclabs.com

COA No.:	M-JO081020)-01
COA Date:	08/17/20	
Sample Rec'd Date:	08/10/20	
ISO/IEC 17025:2017 S	tandard Pag	e 1 of 1

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: Sample Batch/Lot No.: ACCU Laboratory Ref.: Purchase Order No.: Test Method: Notes:	Softgel Capsules 25mg (Curcumin) 2021901 0787519 N/A USP N/A		
Analysis:		Results:	
Total Plate Count:		<10 CFU / g	
Yeast & Mold Count:		<10 CFU / g	
Bile-Tolerant g- Bacteria ((coliforms):	Negative	
Escherichia coli:		Negative	
Salmonella:		Negative	

Approved By: ____

Vano Baghdasarian, Laboratory Director

The results of this test relate only to the samples tested. This test report shall not be reproduced except in full, without written approval of the lab. ACCU Labs shall have no liability to anyone with respect to any interpretations or uses of the COA report, decisions made, or actions taken as a result of or based on the data reported. Abbreviations: g -: gram negative; g +B: gram positive Bacilli; g +C: gram positive Cocci; TPC: Total Plate Count; TNTC: Too Numerous to Count

Document Information		
File Name and Version: LF-510-01 Certificate of Analysis – V. Micro v.03	Effective Date: 05/01/20	Status: Approved by Vano Baghdasarian