CERTIFICATE OF ANALYSIS

PRODUCT NAME:	CBD Softgels with Curcumin
PRODUCT STRENGTH:	25 mg CBD / 10 mg Curcumin
FILL LOT NUMBER:	2009001
BEST BY DATE:	9/30/2021
SOFTGEL LOT NUMBER:	C32519-07

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 ba intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficie 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%)	29.4mg	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	>LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	>LOD	PASS
Microbial - 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: Darcie Moran 04/30/2020

Darcie Moran Date

Manager of Quality Assurance

ACCU Bio-Chem LABORATORIES

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COA No.:	**M-JO041520-03rt**
COA Date:	**04/20/20**
Sample Rec'd Date:	**04/06/20**
ISO/IEC 17025:2005 Standard	**Page 1 of 1**

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: ***Softgel 25 mg Curcumin***
Sample Batch/Lot No.: ***2009001***
ACCU Laboratory Ref.: ***0732673***
Purchase Order No.: ***N/A***
Test Method: ***USP***
Notes: ***Additional Sample Received on 03/15/20***

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

Abbreviations: **g -: gram negative; g +B: gram positive Bacilli; g +C: gram positive Cocci; TPC: Total Plate Count; TNTC: Too Numerous to Count**

Curcumin Softgel C32519-07

Certificate of Analysis

total cannabinoids
29.7 mg
per
capsule

Δ9-THC	THCa	total THC
0 mg	0 mg	0 mg

CBD	CBDa	total CBD
29.4 mg	0 mg	29.4 mg

ISO/IEC 17025:2017
ACCREDITED
Certificate #4961.01

Stillwater Laboratories

https://portal.a2la.org/scopepdf/4961-01.pdf

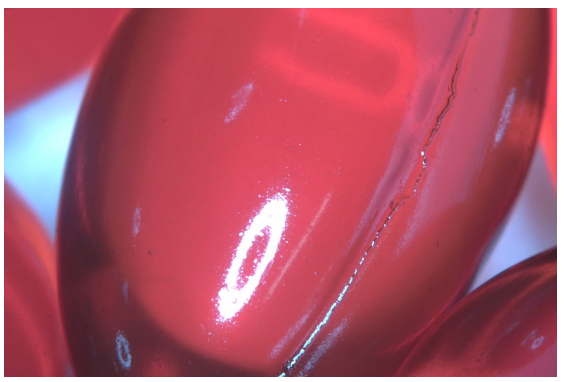
Sample Handling

test ID		sample wt	1.9 g
type	edible	order	**6866**
lab ID	**0CS30**	sample date	3/20/2020
unit	capsule	unit weight	**0.5 g**

Methods

	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.1	ICPMS2030

edible



Potency

per	capsule		estimated error
tetrahydrocannabolic acid (THCa)	0%	0 mg	± 0.01 mg
Δ^9-tetrahydrocannabinol (Δ^9 THC)	0%	0 mg	± 0.01 mg
Δ^8-tetrahydrocannabinol (Δ^8 THC)	0%	0 mg	± 0.01 mg
tetrahydrocannabivarin (THCv)	0%	0 mg	± 0.01 mg
cannabidiolic acid (CBDa)	0%	0 mg	± 0.01 mg
cannabidiol (CBD)	5.88%	29.4 mg	± 0.13 mg
cannabidivarin (CBDv)	0%	0 mg	± 0.01 mg
cannabigerolic acid (CBGa)	0%	0 mg	± 0.01 mg
cannabigerol (CBG)	.06%	.3 mg	± 0.02 mg
cannabinol (CBN)	0%	0 mg	± 0.01 mg
cannabichromene (CBC)	0%	0 mg	± 0.01 mg

Terpenes

%	estimated error	%	estimated error	%	estimated error

terpenes
not tested / not required

Solvents

MT limit	0CS30	LOQ

solvents
not tested / not required

Pesticides (MT)

MT limit	0CS30	LOQ

SEE NEXT PAGE

Pesticides (other)

0CS30	LOQ

Toxic Metals

	MT limit	0CS30	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Microbial

	MT limit	0CS30	LOQ
E. coli	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g

Comments

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = $[\text{cannabinoid}]_{HPLC}$ x $\text{volume}_{dilution}/m_{dry}$. Terpene concentration is calcuated from the equation: [terpene] = $(\text{terpene mass})_{GCMS}$ / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

Certified by:

Justin M Johnston
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com

Methods	SOP ID	equipment
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
solvents	MSP-7.5.1.6	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
metals	MSP-7.5.1.10	ICPMS2030

Comments

Mycotoxins	result	limit	LOD	LOQ	error	pass/fail
Ochratoxin A	ND	20 ppb	0.5	1.4	±1.4 ppb	P
Aflatoxin B1B2G1G2	ND	20 ppb	0.5	1.4	±1.4 ppb	P

Microbial	result	limit	LOD	LOQ	error	pass/fail
NOT REQUIRED						

Metals	result	limit	LOD	LOQ	error	pass/fail
NOT REQUIRED						

Residual Solvents	result	limit	LOD	LOQ	error	pass/fail
NOT REQUIRED						

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = $[\text{cannabinoid}]_{HPLC}$ x $\text{volume}_{dilution}/m_{dry}$. Terpene concentration is calcuated from the equation: [terpene] = $(\text{terpene mass})_{GCMS}$ / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:

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Deputy Director

Printed 3/26/2020 11:22 AM

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406-881-2019

https://portal.a2la.org/scopepdf/4961-01.pdf

Pesticides	result	limit	LOD	LOQ	error	pass/fail
Abamectin	ND	0.3 ppm	0.008	0.023	±0.023 ppm	P
Acephate	ND	5.0 ppm	0.008	0.024	±0.024 ppm	P
Acequinocyl	ND	4.0 ppm	0.007	0.021	±0.021 ppm	P
Acetamiprid	ND	5.0 ppm	0.002	0.006	±0.006 ppm	P
Aldicarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Azoxystrobin	ND	40.0 ppm	0.002	0.007	±0.007 ppm	P
Bifenazate	ND	5.0 ppm	0.002	0.005	±0.005 ppm	P
Bifenthrin	ND	0.5 ppm	0.001	0.003	±0.003 ppm	P
Boscalid	ND	10.0 ppm	0.022	0.067	±0.067 ppm	P
Captan	NT	5.0 ppm				NA
Carbaryl	ND	0.5 ppm	0.009	0.027	±0.027 ppm	P
Carbofuran	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Chloantraniliprole	ND	40.0 ppm	0.021	0.064	±0.064 ppm	P
Chlordane	NT	0.0 ppm				NA
Chlorfenapyr	ND	0.0 ppm	0.006	0.017	±0.017 ppm	P
Chlormequat	ND	0.0 ppm	0.008	0.025	±0.025 ppm	P
Chlorpyrifos	ND	0.0 ppm	0.044	0.133	±0.133 ppm	P
Clofentezine	ND	0.5 ppm	0.008	0.024	±0.024 ppm	P
Coumaphos	ND	0.0 ppm	0.006	0.017	±0.017 ppm	P
Cyfluthrin	ND	1.0 ppm	0.008	0.024	±0.024 ppm	P
Cypermethrin	ND	1.0 ppm	0.006	0.017	±0.017 ppm	P
Daminozide	ND	0.0 ppm	0.030	0.091	±0.091 ppm	P
Dichlorvos	ND	0.0 ppm	0.016	0.047	±0.047 ppm	P
Diazinon	ND	0.2 ppm	0.001	0.004	±0.004 ppm	P
Dimethoate	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Dimethomorph	NT	20.0 ppm				NA
Ethoprop	ND	0.0 ppm	0.003	0.008	±0.008 ppm	P
Ethoprop	ND	0.0 ppm	0.003	0.008	±0.008 ppm	P
Etoxazole	ND	1.5 ppm	0.004	0.012	±0.012 ppm	P
Fenhexamid	NT	10.0 ppm				NA
Fenoxycarb	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
Fenpyroximate	ND	2.0 ppm	0.001	0.004	±0.004 ppm	P
Fipronil	ND	0.0 ppm	0.008	0.024	±0.024 ppm	P
Flonicamid	ND	2.0 ppm	0.108	0.323	±0.323 ppm	P
Fludioxonil	ND	30.0 ppm	0.007	0.021	±0.021 ppm	P
Hexythiazox	ND	2.0 ppm	0.010	0.031	±0.031 ppm	P
Imazalil	ND	0.0 ppm	0.007	0.021	±0.021 ppm	P
Imidacloprid	ND	3.0 ppm	0.001	0.004	±0.004 ppm	P
Kresoxym Methyl	NT	0.0 ppm				NA
Malathion	ND	5.0 ppm	0.006	0.017	±0.017 ppm	P
Metalaxyl	ND	15.0 ppm	0.008	0.025	±0.025 ppm	P
Methiocarb	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
Methomyl	ND	0.1 ppm	0.006	0.019	±0.019 ppm	P
Methyl parathion	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Mevinphos	ND	0.0 ppm	0.006	0.017	±0.017 ppm	P
Myclobutanil	ND	9.0 ppm	0.001	0.003	±0.003 ppm	P
Naled	ND	0.5 ppm	0.006	0.017	±0.017 ppm	P
Oxamyl	ND	0.2 ppm	0.002	0.007	±0.007 ppm	P
Paclobutrazol	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
PCNB	NT	0.2 ppm				NA
Permethrin	ND	20.0 ppm	0.011	0.033	±0.033 ppm	P
Phosmet	ND	0.2 ppm	0.003	0.010	±0.010 ppm	P
Piperonylbutoxide	ND	8.0 ppm	0.011	0.033	±0.033 ppm	P
Prallethrin	ND	0.4 ppm	0.004	0.012	±0.012 ppm	P
Propiconazole	ND	20.0 ppm	0.004	0.012	±0.012 ppm	P
Propoxur	ND	0.0 ppm	0.006	0.019	±0.019 ppm	P
Pyrethrin	ND	1.0 ppm	0.003	0.008	±0.008 ppm	P
Pyridaben	ND	3.0 ppm	0.001	0.003	±0.003 ppm	P
Spinetoram	ND	3.0 ppm	0.004	0.011	±0.011 ppm	P
Spinosad	ND	3.0 ppm	0.007	0.022	±0.022 ppm	P
Spiromesifen	ND	12.0 ppm	0.003	0.010	±0.010 ppm	P
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Spirotetramat	ND	13.0 ppm	0.003	0.008	±0.008 ppm	P
Spiroxamine	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Tebuconazole	ND	2.0 ppm	0.005	0.016	±0.016 ppm	P
Thiacloprid	ND	0.1 ppm	0.001	0.003	±0.003 ppm	P
Thiamethoxam	ND	4.5 ppm	0.003	0.010	±0.010 ppm	P
Trifloxystrobin	ND	30.0 ppm	0.002	0.007	±0.007 ppm	P