

Certificate of Analysis

Order #: BLU200213-010019 Order Date: 2020-02-13 Collection Date: 2020-02-14 Report Date: 2020-02-20

Batch #: 0485 SG
Sample #: AAAC422
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Soft Gel Blend

Initial Gross Weight: 117816mg
Method: SOP-3



Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	1500	<LOQ	10	Cadmium (Cd)	500	<LOQ	10	Lead (Pb)	500	<LOQ	10
Mercury (Hg)	3000	<LOQ	10								

(ppb) = Parts per Billion, (ppb) = (Åµg/kg), , LOQ = Limit of Quantitation

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Certificate of Analysis

Order #: BLU200204-010006 **Order Date:** 2020-02-04 **Collection Date:** 2020-02-05 **Report Date:** 2020-02-11

Batch #: 0485 SG
Sample #: AAAC013
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Hemp CBD Soft Gel 15 mg

Initial Gross Weight: 128702mg
Net Weight: 611mg
Method: SOP-3



Microbiology (Petrifilm/Plating) - Bluebird (Passed) (qPCR)

Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)
Aerobic Bacteria	<LOQ	1000	E. Coli / Coliform	<LOQ	100	Yeast/Mold	<LOQ	1000

(cfu/g) = Colony Forming Unit per Gram, , LOQ = Limit of Quantitation

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Order #: BLU200204-010006 **Order Date:** 2020-02-04 **Collection Date:** 2020-02-05 **Report Date:** 2020-02-11

Batch #: 0485 SG **Initial Gross Weight:** 128702mg
Sample #: AAAC013 **Net Weight:** 611mg
Specimen Type: CBD/HEMP Derivative Products **Method:** SOP-3
Extracted From: Hemp
Description: Hemp CBD Soft Gel 15 mg



Mycotoxins - Bluebird (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	5	Aflatoxin B2		<LOQ	5	Aflatoxin G1		<LOQ	5
Aflatoxin G2		<LOQ	5	Aflatoxin Total	20	<LOQ	5	Ochratoxin A	20	<LOQ	5

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Order #: BLU200220-010079 Order Date: 2020-02-20 Collection Date: 2020-02-20 Report Date: 2020-02-25

Batch #: 0485 SG
Sample #: AAAC686
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Soft Gel Blend

Initial Gross Weight: 17898mg
Method: SOP-3



Pesticides (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	Chlorfenapyr	100	<LOQ	48
Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30	Coumaphos	100	<LOQ	30
Cypermethrin	1000	<LOQ	30	Daminozide	100	<LOQ	30	DDVP(Dichlorvos)	100	<LOQ	30
Diazinon	200	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	30
Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30	Etoxazole	1500	<LOQ	30
Fenhexamid	3000	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fipronil	100	<LOQ	30
Fonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	30	Hexythiazox	2000	<LOQ	30
Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30	Kresoxim Methyl	1000	<LOQ	30
Malathion A	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10	Methiocarb	100	<LOQ	30
Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30	Myclobutanil	3000	<LOQ	30
Naled	500	<LOQ	30	Oxamyl	500	<LOQ	30	Paclobutrazol	100	<LOQ	30
Parathion-methyl	100	<LOQ	10	Pentachloronitrobenzene	200	<LOQ	30	Permethrin	1000	<LOQ	30
Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30	Phosmet	200	<LOQ	30
Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30	Propiconazole	1000	<LOQ	30
Spinetoram	3000	<LOQ	30	Spinosyn A	3000	<LOQ	30	Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30	Spirotetramat	3000	<LOQ	30	Spinosyn D	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30	Thiacloprid	100	<LOQ	30	Spiroxamine	100	<LOQ	30
Trifloxystrobin	3000	<LOQ	30					Thiamethoxam	1000	<LOQ	30

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Batch #: 0485 SG
Sample #: AAAC013
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Hemp CBD Soft Gel 15 mg

Initial Gross Weight: 128702mg
Net Weight: 611mg
Method: SOP-3



Residual Solvents - Bluebird (Passed)

(GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5000	<LOQ	100	Acetonitrile	5000	<LOQ	200	Benzene	1.6	<LOQ	1.6
Butanes	5000	<LOQ	100	Chloroform	53	<LOQ	53	Ethanol	5000	<LOQ	100
Hexane	60	<LOQ	36.6	Isopropyl alcohol	5000	<LOQ	100	Methanol	3000	<LOQ	87.9
Pentane	5000	<LOQ	200	Toluene	890	<LOQ	38.4				

(ppm) = Parts per Million, (ppm) = (µg/g), . LOQ = Limit of Quantitation

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Order Date: 2020-02-04

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Batch #: 0485 SG
Sample #: AAAC013
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Hemp CBD Soft Gel 15 mg

Initial Gross Weight: 128702mg
Net Weight: 611mg
Method: SOP-3



Terpenes - FL (Tested)

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.001	(R)-(+)-Limonene	<LOQ		0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	<LOQ		0.001	alpha-Cedrene	<LOQ		0.001	alpha-Humulene	0.050	0.005	0.001
alpha-Phellandrene	<LOQ		0.001	alpha-Pinene	<LOQ		0.001	alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	beta-Myrcene	<LOQ		0.001	beta-Pinene	<LOQ		0.001
Caryophyllene oxide	<LOQ		0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
				Farnesene	<LOQ		0.001	Fenchone	<LOQ		0.001
				gamma-Terpinene	<LOQ		0.001	Geraniol	<LOQ		0.001
				Hexahydrothymol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
				Linalool	<LOQ		0.001	Isoborneol	<LOQ		0.001
				Pulegone	<LOQ		0.001	Nerol	<LOQ		0.001
				Terpineol	0.050	0.005	0.001	Sabinene	<LOQ		0.001
				trans-Caryophyllene	0.040	0.004	0.001	Terpinolene	<LOQ		0.001
								trans-Nerolidol	<LOQ		0.001
								Valencene	<LOQ		0.001

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

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Bluebird Botanicals

500 S Arthur Ave #300
Louisville Colorado 80027 United States

Sample Name:	0485 SG	Eurofins Sample:	9248191
Project ID	BLUEBIR_BO-20200204-0015	Receipt Date	05-Feb-2020
PO Number	cvd	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	04-Feb-2020
		Date Started	05-Feb-2020
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	12704-12FC6611

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.0235 mg/mL
CBDV	0.304 mg/mL
CBDA	0.411 mg/mL
CBGA	<0.0235 mg/mL
CBG	0.389 mg/mL
CBD	42.4 mg/mL
THCV	<0.0235 mg/mL
CBN	0.119 mg/mL
Delta 9-THC	1.30 mg/mL
Delta 8-THC	<0.0469 mg/mL
THCA	<0.0235 mg/mL
CBC	1.43 mg/mL
Total Cannabinoids	46.3 mg/mL
Total THC (THC + (THCA x 0.877))	1.29 mg/mL
Total CBD (CBD + (CBDA x 0.877))	42.8 mg/mL
CBDVA	<0.0235 mg/mL
CBDV	0.307 mg/mL
CBDA	0.410 mg/mL
CBGA	<0.0235 mg/mL
CBG	0.372 mg/mL
CBD	43.4 mg/mL
THCV	<0.0235 mg/mL
CBN	0.121 mg/mL
Delta 9-THC	1.32 mg/mL
Delta 8-THC	<0.0469 mg/mL
THCA	<0.0235 mg/mL
CBC	1.46 mg/mL
Total Cannabinoids	47.4 mg/mL
Total THC (THC + (THCA x 0.877))	1.32 mg/mL
Total CBD (CBD + (CBDA x 0.877))	43.8 mg/mL

Certificate of Analysis

Bluebird Botanicals

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Louisville Colorado 80027 United States

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing US, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



2918.01

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Finished Product Specification: **Hemp CBD Capsules 15mg**

Description

Hemp CBD Capsules are a dietary supplement intended for oral ingestion. Each capsule consists of a proprietary blend of hemp extract and hempseed oil encapsulated in a soft gel.

General Information

Application and Use	Dietary Supplement	Packaging	120cc amber glass bottles with plastic caps
Composition	Proprietary blend of hemp extract and hemp seed oil	Appearance	Dark green-brown soft gels
Organic status	Extract: Not certified Hemp seed oil: Not certified	Odor	None
Organic Certification	Not certified organic	Soft Gel Size	8.5
Storage and Shelf Life	24 month from the date of production in original packaging. Store cool dark and dry.	Soft gel material	Animal gelatin

Ingredients

Ingredient	Soft Gel	Item Code	SG15
Organic Certification	Not certified	Country of Origin	USA
Ingredient	Hemp proprietary blend	Item Code	n/a
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, stem, flower	Country of Origin	USA

Our Low THC Hemp Extract Product is manufactured by Bluebird Botanicals according to cGMP practices.

Batch: SG 0485.	Batch Size: 627,711 Capsules
Total Quantity Produced (packaging plan based on estimates) : 30 count bottle: 911 60 count bottle: 590 Yield: 100%.	Supplier Lot Codes: Primary Ingredient: E00120035

Potency Method: IHCBD_S		Mycotoxins Method: LCMS/MS	
Total Cannabidiol	≥ 15 mg/capsule	Total Aflatoxin	< 5 ppb
Tetrahydrocannabinol (THC)	< 0.2%	Total Ochratoxin	< 5 ppb
Heavy Metals Method: ICP_MS		Microbiological Contamination Method: Petrifilm	
Arsenic	< 10 ppb	Total Aerobic Bacteria	< 1,000 CFU/g
Cadmium	< 10 ppb	Total E. coli / Coliforms	< 100 CFU/g
Mercury	< 10 ppb	Total Yeast & Mold	< 1,000 CFU/g
Lead	< 10 ppb		

Solvents - Method: GC/GCMS	
N - Butane	< 200 ppm
I - Butane	< 100 ppm
Pentane	< 389.5 ppm
Ethanol	< 26.7 ppm
Acetone	< 87.9 ppm
Isopropanol	< 52.3 ppm
Hexane	< 36.6 ppm
Benzene	< 1.6 ppm
Methanol	< 87.9 ppm
Toluene	< 18 ppm



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Chloroform	< 53 ppm
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Pesticides - Method: LCMS/MS	
Abamectin	< 30 ppb
Acephate	< 30 ppb
Acequinocyl	< 48 ppb
Acetamiprid	< 30 ppb
Aldicarb	< 30 ppb
Azoxystrobin	< 30 ppb
Bifenazate	< 30 ppb
Bifenthrin	< 30 ppb
Chlorfenapyr	< 30 ppb
Chlorpyrifos	< 30 ppb
Clofentezine	< 30 ppb
Coumaphos	< 30 ppb
Cyfluthrin	< 30 ppb
Cypermethrin	< 30 ppb
DDVP (Dichlorvos)	< 30 ppb
Daminozide	< 30 ppb
Dimethomorph	< 30 ppb
Diazinon	< 30 ppb
Dimethoate	< 30 ppb
Ethoprop(hos)	< 30 ppb
Etofenprox	< 30 ppb
Etoxazole	< 30 ppb
Fenhexamid	< 30 ppb
Fenoxycarb	< 30 ppb
Fipronil	< 30 ppb
Imazalil	< 30 ppb
Imidacloprid	< 30 ppb
Kresoxim Methyl	< 30 ppb
Malathion A	< 30 ppb
Metalaxyl	< 30 ppb
Methiocarb	< 30 ppb
Methomyl	< 30 ppb
Mevinphos	< 30 ppb
Myclobutanil	< 30 ppb
Naled	< 30 ppb
Oxamyl	< 30 ppb
Paclobutrazol	< 30 ppb
Parathion-methyl	< 30 ppb
Pentachloronitrobenzene	< 30 ppb
Permethrin	< 30 ppb
Phosmet	< 30 ppb
Piperonylbutoxide	< 30 ppb



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Prallethrin	< 30 ppb
Propiconazole	< 30 ppb
Propoxur	< 30 ppb
Pyrethrin	< 30 ppb
Pyridaben	< 30 ppb
Spinetoram	< 30 ppb
Spinosyn A	< 30 ppb
Spinosyn D	< 30 ppb
Spiromesifen	< 30 ppb
Spirotetramat	< 30 ppb
Spiroxamine	< 30 ppb
Tebuconazole	< 30 ppb
Thiacloprid	< 30 ppb
Thiamethoxam	< 30 ppb
Trifloxystrobin	< 30 ppb

DISCLOSURE OF PRODUCT COMPONENTS: OUR LOW THC HEMP EXTRACT PRODUCTS ARE BLENDED USING A COMBINATION OF FULL SPECTRUM CANNABINOID EXTRACTS, ORGANIC CARRIER OILS AND ESSENTIAL OILS, THE CONTENTS, IDENTITY AND PURITY OF WHICH HAVE BEEN TESTED USING A VARIETY OF METHODS, INCLUDING AOAC-APPROVED METHODS OF ANALYSIS. AOAC INTERNATIONAL IS AN INDEPENDENT, INTERNATIONALLY RECOGNIZED 501(C)(3) NOT-FOR-PROFIT ASSOCIATION WHOSE ANALYTICAL STANDARDS APPLY TO A BROAD RANGE OF INDUSTRIES INCLUDING FOODS, BEVERAGES AND DIETARY SUPPLEMENTS. INGREDIENT AND SERVICE PROVIDERS HAVE BEEN QUALIFIED BY AN INTERNAL QUALITY MANAGEMENT TEAM ACCORDING TO A CGMP-COMPLIANT PROTOCOL. THE QUALIFICATION OF A SUPPLIER ENTAILS INGREDIENT TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING ASSAYS: FATTY ACIDS (OFFICIAL METHODS OF ANALYSIS OF AOAC INTERNATIONAL, 18TH ED., METHODS 922.06 AND 954.02), PEROXIDE VALUE (AOAC INTERNATIONAL, OFFICIAL METHODS 965.33 AND 983.23), YEAST AND MOLD ANALYSIS (AOAC INTERNATIONAL, OFFICIAL METHOD 997.02), AEROBIC PLATE COUNT (AOAC INTERNATIONAL, OFFICIAL METHOD 990.12), ELEMENTS (AOAC INTERNATIONAL, OFFICIAL METHODS 2011.19 AND 993.14), REGULATED MYCOTOXINS (CITATION: ANALYTICAL AND BIOANALYTICAL CHEMISTRY, 402:2675-2686), E. COLI AND COLIFORMS (AOAC INTERNATIONAL, OFFICIAL METHOD 991.14), MULTI-RESIDUE ANALYSIS (AOAC INTERNATIONAL, OFFICIAL METHOD 2007.01), GLUTEN (AOAC INTERNATIONAL, OFFICIAL METHOD 2012.01), RESIDUAL SOLVENTS (UNITED STATES PHARMACOPEIA METHOD 467) . THE AFOREMENTIONED METHODS OF ANALYSIS UTILIZE BUT ARE NOT NECESSARILY LIMITED TO QUANTIFICATION BY HPLC, UPLC/MS, GC/MS, IAC, SFC, ICP-MS. INGREDIENT CONSISTENCY IS ADDITIONALLY EVALUATED THROUGH REGULAR ORGANOLEPTIC SCREENING TO CONTROL TASTE, ODOR, COLOR AND CONSISTENCY. THE FOLLOWING SUPPLIERS/ MANUFACTURERS/SERVICE PROVIDERS HAVE BEEN QUALIFIED BY INTERNAL QUALITY MANAGEMENT: HEMP PRODUCTION SERVICES, SUPPLIER OF ORGANIC HEMP SEED OIL, JEDWARDS INTERNATIONAL, SUPPLIER OF ORGANIC HEMP SEED OIL. ZIVO INC, VAPOR DISTILLED, CBD CRUSADE LLC. MANUFACTURERS/SUPPLIERS OF HEMP EXTRACTS, HAMMER, MANUFACTURER/CO-PACKER OF GEL CAPSULES. PROPRIETARY LOW THC HEMP EXTRACT PRODUCTS ARE MANUFACTURED BY BLUEBIRD BOTANICALS ACCORDING TO CGMP PRACTICES. ALL PRODUCTS ARE TESTED FOR MYCOTOXINS, PESTICIDES, ELEMENTS, RESIDUAL SOLVENTS, TERPENE PROFILES AND CANNABINOID POTENCY TO CONTROL ADHERENCE TO PRODUCT SPECIFICATIONS AND GUARANTEE CONFORMITY TO THE STRICT DEFINITION OF INDUSTRIAL HEMP (<0.3% DELTA9-THC, INCLUDING PRECURSORS). THIRD PARTY LABORATORY ANALYSIS IS CONDUCTED BY BOTANACOR SERVICES, DELTA VERDE LABORATORY, PROVERDE LABORATORIES AND COVANCE INC. ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY PROVERDE LABORATORIES AND COVANCE INC. SEE PRODUCT SPECIFICATION SHEET ABOVE FOR PRODUCT/INGREDIENT BATCH INFORMATION AND PROJECTED PACKAGING PLAN. ALL SUPPLIERS OF PACKAGING SUPPLIES HAVE BEEN QUALIFIED ACCORDING TO CGMP STANDARDS.