

Order #: BLU200319-030007 **Order Date:** 2020-03-19 **Collection Date:** 2020-03-23 **Report Date:** 2020-03-31

Batch #: 0497 S
Sample #: AAAE055
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Hemp
Description: Signature

Initial Gross Weight: 41836mg
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) = (µg/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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Microbiology #5 (Petrifilm/Plating) (Passed) (Petrifilm)

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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Mycotoxins (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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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	Carbaryl	500	<LOQ	10
Chlorfenapyr	100	<LOQ	48	Chlorpyrifos	100	<LOQ	30	Clofentezine	500	<LOQ	30
Coumaphos	100	<LOQ	30	Cyfluthrin	1000	<LOQ	30	Cypermethrin	1000	<LOQ	30
Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30	Dichlorvos	100	<LOQ	30
Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	30	Ethoprophos	100	<LOQ	30
Etofenprox	100	<LOQ	30	Etoazole	1500	<LOQ	30	Fenhexamid	3000	<LOQ	30
Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<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	48	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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Lab Toxicologist

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Principal Scientist

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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	410	<LOQ	0.96	Benzene	1.6	<LOQ	1.6
Butanes	2000	<LOQ	13.32	Chloroform	53	<LOQ	53	Ethanol	5000	<LOQ	100
Ethyl Acetate	5000	<LOQ	6.4	Ethyl Ether	5000	<LOQ	8	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, (µg/g), , LOQ = Limit of Quantitation

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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	0.560	0.056	0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	0.117	0.012	0.001	alpha-Cedrene	<LOQ		0.001	alpha-Farnesene	<LOQ		0.001
alpha-Humulene	0.073	0.007	0.001	alpha-Phellandrene	0.125	0.013	0.001	Alpha-Pinene	14.633	1.463	0.001
beta-Farnesene	0.108	0.011	0.001	Beta-Myrcene	0.638	0.064	0.001	Alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	Camphene	<LOQ		0.001	Beta-Pinene	0.222	0.022	0.001
Caryophyllene oxide	0.157	0.016	0.001	cis-Nerolidol	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	Farnesene			0.001	Eucalyptol	<LOQ		0.001
Guaial	0.049	0.005	0.001	Gamma-Terpinene	<LOQ		0.001	Fenchone	<LOQ		0.001
Isopulegol	<LOQ		0.001	Hexahydrothymol	<LOQ		0.001	Geraniol	<LOQ		0.001
Ocimene	0.044	0.004	0.001	Linalool	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
Sabinene Hydrate	<LOQ		0.001	Pulegone	<LOQ		0.001	Isoborneol	<LOQ		0.001
trans-beta-Ocimene	0.270	0.027	0.001	Terpineol	0.050	0.005	0.001	Nerol	<LOQ		0.001
				Trans-Caryophyllene	0.181	0.018	0.001	Sabinene	0.444	0.044	0.001
								Terpinolene	<LOQ		0.001
								trans-Nerolidol	0.030	0.003	0.001
								Valencene	<LOQ		0.001

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

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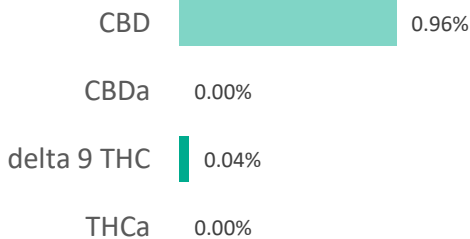
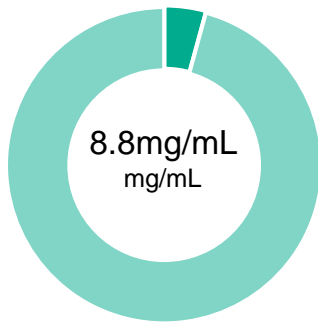
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0497 S

Batch ID:		Test ID:	2594770.002
Reported:	19-Mar-2020	Method:	TM14
Type:	Solution		
Test:	Potency		


CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.56	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.28	0.40	0.4
Cannabidiolic acid (CBDA)	0.83	ND	ND
Cannabidiol (CBD)	0.47	8.80	9.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.31	ND	ND
Cannabinolic Acid (CBNA)	0.77	ND	ND
Cannabinol (CBN)	0.34	ND	ND
Cannabigerolic acid (CBGA)	0.49	ND	ND
Cannabigerol (CBG)	0.28	0.90	0.9
Tetrahydrocannabivarinic Acid (THCVA)	0.48	ND	ND
Tetrahydrocannabivarin (THCV)	0.25	ND	ND
Cannabidivarinic Acid (CBDVA)	0.77	ND	ND
Cannabidivarin (CBDV)	0.42	ND	ND
Cannabichromenic Acid (CBCA)	0.42	ND	ND
Cannabichromene (CBC)	0.51	ND	ND
Total Cannabinoids		10.10	10.90
Total Potential THC**		0.40	0.42
Total Potential CBD**		8.80	9.55

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.
 Total THC = THC + (THCa * (0.877)) and Total CBD = CBD + (CBDa * (0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
 Density = 0.92g/mL
 N/A

FINAL APPROVAL

 **Tyler Wiese**
 19-Mar-2020
 6:49 PM

 **David Green**
 19-Mar-2020
 7:07 PM

PREPARED BY / DATE

APPROVED BY / DATE

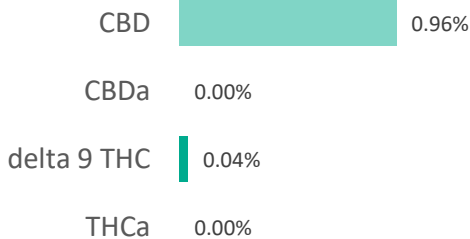
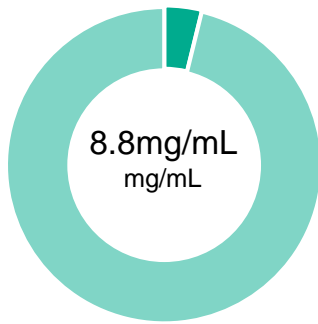
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0497 S

Batch ID:		Test ID:	2594770.003
Reported:	19-Mar-2020	Method:	TM14
Type:	Solution		
Test:	Potency		

CANNABINOID PROFILE



Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.56	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.28	0.40	0.4
Cannabidiolic acid (CBDA)	0.82	ND	ND
Cannabidiol (CBD)	0.46	8.80	9.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.30	ND	ND
Cannabinolic Acid (CBNA)	0.76	ND	ND
Cannabinol (CBN)	0.34	ND	ND
Cannabigerolic acid (CBGA)	0.49	ND	ND
Cannabigerol (CBG)	0.27	0.90	1.0
Tetrahydrocannabivarinic Acid (THCVA)	0.48	ND	ND
Tetrahydrocannabivarin (THCV)	0.25	ND	ND
Cannabidivarinic Acid (CBDVA)	0.76	ND	ND
Cannabidivarin (CBDV)	0.42	ND	ND
Cannabichromenic Acid (CBCA)	0.42	ND	ND
Cannabichromene (CBC)	0.50	ND	ND
Total Cannabinoids		10.10	10.90
Total Potential THC**		0.40	0.38
Total Potential CBD**		8.80	9.55


NOTES:

Density = 0.92g/mL

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.
 Total THC = THC + (THCa * (0.877)) and Total CBD = CBD + (CBDa * (0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

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 Tyler Wiese
 19-Mar-2020
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 David Green
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 7:07 PM

PREPARED BY / DATE

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Certificate #4329.02

Finished Product Specification: **Hemp Extract Signature**
Description

Hemp Extract Signature is an oil meant for oral ingestion. It consists of hemp extract blended with cold pressed organic hemp seed oil, cold pressed organic black cumin seed oil and frankincense essential oil.

General Information

Application and Use	Dietary Supplement	Appearance	Greenish-brown, oily liquid
Composition	Proprietary blend of hemp extract, hemp seed oil, black cumin seed oil, frankincense oil	Odor	Grassy, earthy odor, with spicy, woody, and resinous notes
Organic status	Extract: not certified Hemp seed oil: certified organic Black cumin seed oil: certified organic	Consistency	Viscous below 32 degrees Fahrenheit
Organic Certification	Not certified organic	Density	0.915 mg/mL - 0.925 mg/mL
Storage and Shelf Life	500 days from the date of production in original packaging. Store cool dark and dry.	Solubility	Soluble in oils and ethanol
Packaging	10ml, 30ml, 60ml amber glass essence bottle with tamper-evident dropper cap with graduated glass pipette		

Ingredients

Ingredient	Hemp seed oil	Item Code	HSO
Botanical Name	<i>Cannabis Sativa</i>	Organic Certification	Organic
Plant parts used in oil	Seed	Country of Origin	Canada

Ingredient	Hemp CO2 extract	Item Code	DCFL
Botanical Name	<i>Cannabis Sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, stem and flower	Country of Origin	USA

Ingredient	Hemp Ethanol/ Butane extract	Item Code	DEBFH
Botanical Name	<i>Cannabis Sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, stem and flower	Country of Origin	USA

Ingredient	Hemp Extract (CBD Isolate)	Item Code	ISO
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, Stem, Flower	Country of Origin	USA

Ingredient	Black cumin seed oil	Item Code	BC
Botanical Name	<i>Nigella Sativa</i>	Organic Certification	Certified organic
Plant parts used in oil	Seed	Country of Origin	Israel, India

Ingredient	Frankincense CO2 Oil	Item Code	FRANK
Botanical Name	<i>Frankincense Carterii</i>	Organic Certification	Not certified
Plant parts used in oil	Resin	Country of Origin	Somalia

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

Batch: S 0497	Batch Size: 189.5 Liters (174.29Kg)
Total Quantity Produced (Packaging plan based on estimates): 10 ml bottle: 4250 30 ml bottle: 1380 60 ml bottle: 1742 Yield: 99.51%	Supplier Lot Codes: Primary Ingredient: CO-0049 Carrier: 64-EULAFIO-01, 1598-SNN-2019, 7490-SNN-2019 Essential Oils: E0C0109E



410 South Arthur Ave, Louisville, CO, 80027

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Potency Method: IHCBD_S		Mycotoxins Method: LCMS/MS	
Total Cannabidiol	250 - 300 mg/ounce	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
Chloroform	< 53 ppm

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



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Fenoxycarb	< 30 ppb
Fipronil	< 30 ppb
Imazalil	< 30 ppb
Imidacloprid	< 30 ppb
Kresoxim Methyl	< 30 ppb
Malathion A	< 30 ppb
Metaxyl	< 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
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), 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, FRESH HEMP FOODS, SUPPLIER OF ORGANIC HEMP SEED OIL, SNN NATURALS, SUPPLIER OF ORGANIC BLACK CUMIN SEED OIL, EDEN BOTANICALS, SUPPLIER OF FRANKINCENSE (BOSWELLIA CARTERII), THE PERFUMERY, SUPPLIER OF FRANKINCENSE (BOSWELLIA CARTERII), ZIVO INC., MANUFACTURERS/SUPPLIERS OF HEMP EXTRACTS. 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, ACS LABORATORIES, AND EUROFINIS. ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY BOTANACOR, ACS, AND EUROFINIS. 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.