



410 South Arthur Ave, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com

Finished Product Specification: **Hemp Extract Complete Concentrated**

Description

Hemp Extract Complete Concentrated is an oil meant for oral ingestion. It consists of hemp extract blended with cold pressed organic olive oil, and steam distilled hemp terpenes.

General Information

Application and Use	Dietary Supplement	Appearance	Greenish-brown, oily liquid
Composition	Proprietary blend of hemp extract, olive oil, hemp terpenes	Odor	Grassy, earthy odor, with citrusy green high notes
Organic Certification	Extract: not certified Olive oil: certified organic Terpenes: Not certified	Consistency	Viscous below 32 degrees Fahrenheit
Storage and Shelf Life	500 days from the date of production in original packaging. Store cool dark and dry.	Density	9.15 g/mL - 9.25 g/ mL
Packaging	10ml, 30ml, 60ml amber glass essence bottle with tamper-evident dropper cap with graduated glass pipette	Solubility	Soluble in ethanol and oils

Ingredients

Ingredient	Olive oil	Item Code	OO
Botanical Name	<i>Olea europaea</i>	Organic Certification	Certified organic
Plant parts used in oil	Fruit	Country of Origin	Italy, Spain, Tunisia

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

Ingredient	Hemp CO2 extract (RAW, concentrated)	Item Code	NDCFS
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, stem, flower	Country of Origin	USA

Ingredient	Hemp Ethanol extract	Item Code	DEFS
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Seed, stem, 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	Hemp terpenes	Item Code	TERP
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Herb	Country of Origin	Canada, France, Italy

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

Batch: COX 507	Batch Size: 151.46 Liters (137.789 Kg)
Total Quantity Produced (based on projections): 10 ml bottle: 2030 30 ml bottle: 1920 60 ml bottle: 1200 Yield: 99.36%.	Supplier Lot Codes: Primary Ingredient: CO-0049, EG106720A Carrier: L19-142 Essential Oils: E0C0816A



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Potency - Method: IHCBDS	
Total Cannabidiol	1500 - 1800 mg/ounce
CBD:CBDA Ratio	Appx 1:1 (+/- 10%)
Tetrahydrocannabinol (THC)	< 0.2%

Heavy Metals - Method : ICP-MS	
Arsenic	< 10 ppb
Cadmium	< 10 ppb
Mercury	< 10 ppb
Lead	< 30 ppb

Mycotoxins - Method: LCMS/MS	
Total Aflatoxin	< 5 ppb
Total Ochratoxin	< 5 ppb

Microbiological Contamination - Method:PetriFilm	
Total Aerobic Bacteria	< 1,000 CFU/g
Total E. coli / Coliforms	< 100 CFU/g
Total Yeast & Mold	< 1,000 CFU/g

Solvents - Method: GC/GCMS	
Acetone	< 100 ppm
Acetonitrile	< 0.96 ppm
Benzene	< 1.6 ppm
Butanes	< 13.32 ppm
Chloroform	< 53 ppm
Ethanol	< 100 ppm
Ethyl Acetate	< 6.4 ppm
Ethyl Ether	< 8 ppm
Hexane	< 36.6 ppm
Isopropyl Alcohol	< 100 ppm
Methanol	< 87.9 ppm
Pentane	< 200 ppm
Toluene	< 38.4 ppm

Pesticides - Method: LCMS/MS	
Abamectin	< 30 ppb
Acephate	< 30 ppb
Acequinocyl	< 30 ppb
Acetamiprid	< 30 ppb
Aldicarb	< 30 ppb
Azoxystrobin	< 30 ppb
Bifenazate	< 30 ppb



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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
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



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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: JEDWARDS INTERNATIONAL, SUPPLIER OF ORGANIC OLIVE OIL, EDEN BOTANICALS, SUPPLIER OF CANNABIS ESSENTIAL OIL, THE PERFUMERY, SUPPLIER OF CANNABIS ESSENTIAL OIL, ZIVO INC., MANUFACTURER/SUPPLIER 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 EUROFIN. ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY BOTANACOR, ACS, AND EUROFIN. 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.