



410 South Arthur Ave, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com
 F03.019w.01

Specification Sheet: **Downshift CBN + CBD Oil**

Downshift CBN + CBD Oil is an oil meant for oral ingestion. It consists of hemp extract blended with fractionated coconut oil, CBN Distillate, Full Spectrum Hemp Extract & Terpenes.

General information

Application and Use	Dietary Supplement
Composition	Proprietary blend of hemp extract, fractionated coconut oil and terpenes
Organic status of raw materials	Extract: not certified fractionated coconut oil: certified organic terpenes: not certified
Organic status of finished product	Not certified organic
Storage and Shelf Life	2 years from the date of production in original packaging. Store cool dark and dry.
Packaging	30ml amber glass essence bottle with tamper evident graduated glass droppers
State Hemp Plan Manufactured Under	Colorado

Ingredients

Ingredient	Fractionated Coconut Oil (MCT)	Item Code	FCO
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Ingredient	CBN Distillate	Item Code	CBND
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Leaves, Flowers	Country of Origin	USA

Ingredient	Hemp full spectrum distillate	Item Code	ZFSD
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Leaves, Flowers	Country of Origin	USA

Ingredient	Linalool	Item Code	LINALOOL
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Ingredient	Beta-Caryophyllene	Item Code	BETACAR
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Our Low THC Hemp Extract Product is manufactured by Bluebird Botanicals according to cGMP practices.

Batch: DS 579	
Manufacturing Date: 01/21/2021	Batch Size: 75.66 Liters (71.5 Kg)
Total Quantity Produced: 30 ml bottle: 2,526 Yield: 99.94%	Supplier Lot Codes: Active Ingredient: UKN 001, 015 Carrier: 190927 Other Ingredients: E0C1216K, E0C0422A

Specification

Appearance	Greenish-brown, oily liquid
Odor	floral, peppery
Consistency	Viscous below 32 degrees Fahrenheit
Density	0.945 g/mL
Solubility	Soluble in oils and ethanol

Assay



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Potency - Method: IHCBD_S	
Total Cannabidiol (CBD)	720 - 864 mg/ounce
Total Cannabigerol (CBN)	180 - 216 mg/ounce
Tetrahydrocannabinol (THC)	≤ 0.2%

Heavy Metals - Method : ICP-MS	
Arsenic	< 30 ppb
Cadmium	< 30 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	
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Abamectin	< 30 ppb
Acephate	< 30 ppb
Acequinocyl	< 30 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
Prallethrin	< 30 ppb
Propiconazole	< 30 ppb
Propoxur	< 30 ppb
Pyrethrin	< 30 ppb
Pyridaben	< 30 ppb



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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 EXTRACT AND ORGANIC CARRIER 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 FRACTIONATED COCONUT OIL, ZIVO INC, AMERICAN HEMP DISTRIBUTOR, MANUFACTURER/SUPPLIER OF HEMP EXTRACTS, THE PERFUMERY, MANUFACTURER/SUPPLIER OF TERPENES. 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 EUROFINS ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY BOTANACOR LABORATORIES, ACS LABORATORIES AND EUROFINS. 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.

Version #	Date Revised	Revised By	Revision
0	1/28/2021	KOI	Original, added to document registry