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

Specification Sheet: **Classic 10 CBD Oil**

Classic 10 CBD Oil is an oil meant for oral ingestion. It consists of hemp extract blended with fractionated coconut oil.

Application and Use	Dietary Supplement	**Appearance**	Amber, oily liquid
Composition	Proprietary blend of hemp extract and fractionated coconut oil	**Odor**	Grassy, earthy odor
Organic status	Extract: not certified Fractionated coconut oil: certified organic	**Consistency**	Viscous below 32 degrees Fahrenheit
Organic Certification	Not certified organic	**Density**	0.945 mg/mL - 0.955 mg/ mL
Storage and Shelf Life	2 years (730 days) from the date of production in original packaging. Store cool dark and dry.	**Solubility**	Soluble in oils and ethanol
Packaging	30ml, 60ml amber glass essence bottle with tamper-evident glass dropper cap and label.	**Inventory Part**	10CL

Ingredient	Fractionated coconut oil	**Item Code**	FCO
Botanical Name	*Cocos nucifera*	**Organic Certification**	Certified Organic
Plant parts used	Nut	**Country of Origin**	Singapore

Ingredient	Organic Decarboxylated Hemp Extract	**Item Code**	OGDECARB
Botanical Name	*Cannabis sativa*	**Organic Certification**	Certified Organic
Plant parts used in oil	Leaves, Flowers	**Country of Origin**	USA

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

Batch: 311112144 10CL	
Manufacturing Date: 4/27/2023	Batch Size: 151,920 mL
Total Quantity Produced: 60 ml bottle: 2,532	Supplier Lot Codes: Primary Ingredient: 1749-OGDECARB, LFD-O-30262

Potency Method: HPLC-DAD	
Total Cannabidiol (CBD)	19.5 - 24 mg/mL
Tetrahydrocannabinol (THC)	< 0.2%
Tetrahydrocannabinol (THC) per serving (mg)	≤ 0.58 mg/serving
Tetrahydrocannabinol (THC) per container (mg)	60 ml: ≤ 69.6 mg

Heavy Metals - Method : ICP-MS or AOAC 2013.06	
Arsenic	< 0.42 ppm
Cadmium	< 0.27 ppm
Mercury	< 0.4 ppm
Lead	< 0.5 ppm

Mycotoxins - Method: GC-MS, LC-MS/MS or UHPLC-MS/MS	
Total Aflatoxin (B1, B2, G1, and G2)	< 20 ppb
Aflatoxin B1	< 5 ppb

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Total Ochratoxin	< 5 ppb

Microbiological Contamination - Method:Petrifilm, RAPID, Plating, or PCR	
Total Aerobic Bacteria	< 10,000 CFU/g
Total E. coli / Coliforms	< 100 CFU/g
Total Yeast & Mold	< 1,000 CFU/g
Salmonella	Absent/25 g
E. coli (STEC)	Absent/25 g

Solvents Test Method: GC/MS, HPLC			
1-Butanol	< 5000 ppm	1-Pentanol	< 5000 ppm
1,2-Dichloroethane	< 1.0 ppm	1,2-Dimethoxyethane	< 100 ppm
1,4-Dioxane	< 380 ppm	2-Butanol	< 5000 ppm
2-Ethoxyethanol	< 160 ppm	2,2-Dimethylbutane (Neohexane)	< 290 ppm
2-Methylbutane (Isopentane)	< 5000 ppm	2,3-Dimethylbutane	< 290 ppm
2-Propanol (Isopropyl Alcohol)	< 500 ppm	2-Methylpentane	< 290 ppm
2,2-Dimethylpropane (neo-pentane)	< 200 ppm	Isopentane (2-Methylbutane)	< 290 ppm
Acetone	< 5000 ppm	3-Methylpentane	< 290 ppm
Total Butanes	< 500 ppm	Acetonitrile	< 410 ppm
Chloroform	< 1.0 ppm	Benzene	< 1.0 ppm
Dimethyl sulfoxide (DMSO)	< 5000 ppm	Cyclohexane	< 500 ppm
Ethyl acetate	< 1000 ppm	Ethanol	< 1000 ppm
Ethyl ether	< 5000 ppm	Ethylbenzene	< 2170 ppm
Ethylene glycol	< 620 ppm	Ethylene oxide	< 1.0 ppm
Isopropylbenzene (Cumene)	< 70 ppm	Total Hexanes	< 290 ppm
Dichloromethane (Methylene Chloride)	< 10 ppm	Isopropyl acetate	< 5000 ppm
n-Heptane	< 500 ppm	Methanol	< 500 ppm
n-Pentane	< 1000 ppm	2-Butanone (Methylethyl ketone)	< 5000 ppm
N,N-Dimethylacetamide	< 1090 ppm	Isopentane (2-Methylbutane)	< 5000 ppm
Total Pentantes	< 500 ppm	n-Butane	< 2000 ppm
Tetrahydrofuran	< 720 ppm	n-hexane	< 60 ppm

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Solvents Test Method: GC/MS, HPLC			
Total Xylenes	< 217 ppm	1-Propanol (n-Propanol)	< 5000 ppm
Total Heptanes	< 1000 ppm	N,N-Dimethylformamide	< 880 ppm
1,2-Dimethylbenzene (o-Xylene)	< 2170 ppm	Propane	< 500 ppm
1,3-Dimethylbenzene (m-Xylene)	< 2170 ppm	Pyridine	< 100 ppm
1,4-Dimethylbenzene (p-Xylene)	< 2170 ppm	Toluene	< 180 ppm
1,1-Dichloroethene	< 8 ppm	Trichloroethylene	< 1.0 ppm
1,2-Dichloroethene	< 5 ppm	Sulfolane	< 160 ppm

Pesticides - Method: AOAC 2007.01, LCMS/MS	
Abamectin	< 0.25 ppm
Acephate	< 0.05 ppm
Acequinocyl	< 0.027 ppm
Acetamiprid	< 0.05 ppm
Aldicarb	< 0.09 ppm
Allethrin	< 0.092 ppm
Atrazine	< 0.5 ppm
Azadirachtin	< 0.5 ppm
Azoxystrobin	< 0.01 ppm
Benzovindiflupyr	< 0.01 ppm
Bifenazate	<0.01 ppm
Bifenthrin	< 0.064 ppm
Boscalid	< 0.01 ppm
Buprofezin	< 0.019 ppm
Carbaryl	< 0.025 ppm
Chlorantraniliprole	< 0.018 ppm
Chlorfenapyr	< 1 ppm
Chlorpyrifos	< 0.1 ppm
Clofentezine	< 0.01 ppm
Clothianidin	< 0.025 ppm
Coumaphos	< 0.01 ppm
Cyantraniliprole	< 0.01 ppm
Cyfluthrin	< 0.159 ppm
λ-Cyhalothrin	< 0.206 ppm
Cypermethrin	< 0.153 ppm
Cyprodinil	< 0.01 ppm
Daminozide	< 0.077 ppm
Deltamethrin	< 0.180 ppm
Diazinon	< 0.017 ppm
Dichlorvos (DDVP)	< 0.038 ppm
Dimethoate	< 0.01 ppm

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Pesticides - Method: AOAC 2007.01, LCMS/MS	
Dimethomorph	< 0.05 ppm
Dinotefuran	< 0.05 ppm
Diuron	< 0.04 ppm
Dodemorph	< 0.035 ppm
Endosulfan I (alpha)	< 2.5 ppm
Endosulfan II (beta)	< 2.5 ppm
Endosulfan sulfate	< 2.5 ppm
Ethoprophos	< 0.01 ppm
Etofenprox	< 0.042 ppm
Etoxazole	< 0.02 ppm
Etridiazole	< 0.005 ppm
Fenhexamid	< 0.008 ppm
Fenoxycarb	< 0.01 ppm
Fenpyroximate	< 0.02 ppm
Fensulfothion	< 0.01 ppm
Fenthion	< 0.01 ppm
Fenvalerate	< 0.099 ppm
Fipronil	< 0.01 ppm
Flonicamid	< 0.025 ppm
Fludioxonil	< 0.01 ppm
Fluopyram	< 0.01 ppm
Hexythiazox	< 0.01 ppm
Imazalil	< 0.01 ppm
Imidacloprid	< 0.01 ppm
Iprodione	< 0.50 ppm
Kinoprene	< 1.25 ppm
Kresoxim Methyl	< 0.15 ppm
Malathion	< 0.01 ppm
Metalaxyl	< 0.01 ppm
Methiocarb	< 0.01 ppm
Methomyl	< 0.025 ppm
Methoprene	< 0.521 ppm
Methyl Parathion (parathion-methyl)	< 0.05 ppm
Mevinphos	< 0.025 ppm
MGK-264	< 0.047 ppm
Myclobutanil	< 0.01 ppm
Naled	< 0.064 ppm
Novaluron	< 0.025 ppm
Oxamyl	< 0.2 ppm
Paclobutrazol	< 0.01 ppm
Pentachloronitrobenze (Quintozene)	< 0.012 ppm
Permethrin	< 0.168 ppm
Phenothrin	< 0.047 ppm
Phosmet	< 0.02 ppm
Piperonyl butoxide	< 1.25 ppm

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Pesticides - Method: AOAC 2007.01, LCMS/MS	
Pirimicarb	< 0.01 ppm
Prallethrin	< 0.046 ppm
Propiconazole	< 0.08 ppm
Propoxur	< 0.008 ppm
Pyraclostrobin	< 0.01 ppm
Pyrethrins	< 0.049 ppm
Pyridaben	< 0.02 ppm
Resmethrin	< 0.05 ppm
Spinetoram	< 0.01 ppm
Spinosad	< 0.01 ppm
Spirodiclofen	< 0.093 ppm
Spiromesifen	< 0.05 ppm
Spirotetramat	< 0.01 ppm
Spiroxamine	< 0.062 ppm
Tebuconazole	< 0.01 ppm
Tebufenozide	< 0.01 ppm
Teflubenzuron	< 0.025 ppm
Tetrachlorvinphos	< 0.01 ppm
Tetramethrin	< 0.063 ppm
Thiabendazole	< 0.02 ppm
Thiacloprid	< 0.01 ppm
Thiamethoxam	< 0.01 ppm
Thiophanate-Methyl	< 0.04 ppm
Trifloxystrobin	< 0.01 ppm

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., 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 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	11/15/2021	KOI	Original, added to document registry
1	07/25/2022	SB	Updated to match new lab and state analyte limits, updated description, updated listed name.
2	11/9/2022	HB	Minor update to pesticide and solvents/pesticide analytes and limits