



410 South Arthur Ave, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com
 05.093.04

Specification Sheet: CF (Clarify CBC + CBD Oil)

CF (Clarify 10 CBC + CBD Oil) is an oil meant for oral ingestion. It consists of hemp extract blended with fractionated coconut oil, CBC Isolate, Full Spectrum Hemp Extract & Terpenes.

Application and Use	Dietary Supplement	Appearance	Clear, oily liquid
Composition	Organic Fractionated Coconut Oil 94.5-95.5% Full Spectrum Distillate 2-3.5% CBC Isolate 1-2.5% Rosemary Essential Oil 0.25-0.5%	Organic status	Distillate: not certified Fractionated Coconut oil: certified organic Terpenes: Not certified
Odor	Rosemary, herbal	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 ethanol and oils
Wholesale Sell by Date	1 year (365 days) from the date of production in original packaging. Store at ambient temperature.	Internal Sell by Date	6 months from expiration date in original packaging. Store at ambient temperature.
Packaging	30mL amber glass essence bottle, glass graduated dropper cap, tamper-evident shrink wrap and label	Inventory Part	30 mL CF-30
Fill Level	30 mL: 27.6g - 29.8g	Inventory Part	30 mL: LCF30

Ingredient	Organic Fractionated Coconut Oil (MCT)	CAS #	73398-61-5 / 65381-09-1
Botanical Name	<i>Cocos nucifera</i>	Organic Certification	Certified Organic
Plant parts used in oil	Nut	Country of Origin	Singapore

Ingredient	CBC Isolate	Item Code	CBC
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	FSDIST
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Leaves, flowers	Country of Origin	USA

Ingredient	Organic Rosemary Essential Oil	CAS #	84604-14-8
Botanical Name	<i>Rosmarinus officinalis</i>	Organic Certification	Certified organic
Plant parts used in oil	Resin	Country of Origin	Tunisia

Potency - Method: HPLC-DAD	
Total Cannabidiol (CBD)	19.5 - 22 mg/mL
Total Cannabichromene (CBC)	9.75 - 11 mg/mL
Tetrahydrocannabinol (THC)	≤ 0.2%
Tetrahydrocannabinol (THC) per serving (mg)	≤ 0.7 mg/serving
Tetrahydrocannabinol (THC) per container (mg)	30 mL: ≤ 42.75 mg

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



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Heavy Metals - Method : ICP-MS or AOAC 2013.06	
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
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



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Solvents			
Test Method: GC/MS, HPLC			
n-Pentane	< 1000 ppm	2-Butanone (Methylethyl ketone)	< 5000 ppm
N,N-Dimethylacetamide	< 1090 ppm	Isopentane (2-Methylbutane)	< 5000 ppm
Total Pentanes	< 500 ppm	n-Butane	< 2000 ppm
Tetrahydrofuran	< 720 ppm	n-hexane	< 60 ppm
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	< 0.2 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	< 0.2 ppm
Boscalid	< 0.01 ppm
Buprofezin	< 0.02 ppm
Carbaryl	< 0.025 ppm
Chlorantraniliprole	< 0.2 ppm
Chlorfenapyr	< 0.1 ppm
Chlorpyrifos	< 0.2 ppm
Clofentezine	< 0.01 ppm
Clothianidin	< 0.025 ppm
Coumaphos	< 0.01 ppm
Cyantraniliprole	< 0.01 ppm
Cyfluthrin	< 1 ppm
λ-Cyhalothrin	< 1 ppm



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Pesticides - Method: AOAC 2007.01, LCMS/MS	
Cypermethrin	< 1 ppm
Cyprodinil	< 0.01 ppm
Daminozide	< 0.1 ppm
Deltamethrin	< 1 ppm
Diazinon	< 0.2 ppm
Dichlorvos (DDVP)	< 0.05 ppm
Dimethoate	< 0.01 ppm
Dimethomorph	< 3 ppm
Dinotefuran	< 0.05 ppm
Diuron	< 1 ppm
Dodemorph	< 1 ppm
Endosulfan I (alpha)	< 2.5 ppm
Endosulfan II (beta)	< 2.5 ppm
Endosulfan sulfate	< 2.5 ppm
Ethoprophos	< 0.01 ppm
Etofenprox	< 0.1 ppm
Etoxazole	< 0.02 ppm
Etridiazole	< 0.15 ppm
Fenhexamid	< 3 ppm
Fenoxycarb	< 0.01 ppm
Fenpyroximate	< 0.4 ppm
Fensulfothion	< 0.01 ppm
Fenthion	< 0.01 ppm
Fenvalerate	< 1 ppm
Fipronil	< 0.01 ppm
Flonicamid	< 0.025 ppm
Fludioxonil	< 0.01 ppm
Fluopyram	< 0.01 ppm
Hexythiazox	< 1 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	< 1 ppm
Methyl Parathion (parathion-methyl)	< 0.1 ppm
Mevinphos	< 0.025 ppm
MGK-264	< 0.2 ppm
Myclobutanil	< 0.01 ppm
Naled	< 0.5 ppm
Novaluron	< 0.025 ppm



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Pesticides - Method: AOAC 2007.01, LCMS/MS	
Oxamyl	< 0.2 ppm
Paclobutrazol	< 0.01 ppm
Pentachloronitrobenze (Quintozene)	< 0.2 ppm
Permethrin	< 0.2 ppm
Phenothrin	< 1 ppm
Phosmet	< 0.02 ppm
Piperonyl butoxide	< 1.25 ppm
Pirimicarb	< 0.01 ppm
Prallethrin	< 0.2 ppm
Propiconazole	< 0.4 ppm
Propoxur	< 0.01 ppm
Pyraclostrobin	< 0.01 ppm
Pyrethrins	< 1 ppm
Pyridaben	< 0.02 ppm
Pyriproxyfen	< 1 ppm
Resmethrin	< 0.05 ppm
Spinetoram	< 0.01 ppm
Spinosad	< 0.01 ppm
Spirodiclofen	< 1 ppm
Spiromesifen	< 0.2 ppm
Spirotetramat	< 0.01 ppm
Spiroxamine	< 0.4 ppm
Tebuconazole	< 0.01 ppm
Tebufenozide	< 0.01 ppm
Teflubenzuron	< 0.025 ppm
Tetrachlorvinphos	< 0.01 ppm
Tetramethrin	< 1 ppm
Thiabendazole	< 1 ppm
Thiacloprid	< 0.01 ppm
Thiamethoxam	< 0.01 ppm
Thiophanate-Methyl	< 1 ppm
Trifloxystrobin	< 0.01 ppm

Version #	Date Revised	Revised By	Revision
0	10/8/2021	Kasey Irwin	Original, added to document registry
1	12/16/2021	Harrington Baker	Update country of origin and botanical name for rosemary essential oil ingredient
2	4/25/2022	Harrington Baker	Updated testing methods, added 10 mL THC content, updated ingredient concentrations
3	7/18/2022	Seth Bazata / Harrington Baker	Updated to match new lab and state analyte limits, potency spec UOM to mg/mL to match 3rd party lab results, added inventory part.



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4	10/20/2022	Harrington Baker	Minor update to pesticide and solvents/pesticide analytes and limits, update all inventory parts to reflect inventory management system, added fill level specification and label part #
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