



410 South Arthur Ave, Louisville, CO, 80027

720-726-5132

[www.bluebirdbotanicals.com](http://www.bluebirdbotanicals.com)

F03.019h.03

#### Finished Product Specification:: CBD Isolate

##### Description

Hemp CBD Isolate is extracted from hemp used as a raw ingredient in vape blends and also sold as a final product.

##### General Information

Application and Use	Ingredient/Final Product
Composition	100% Hemp extract by weight
Organic Certification	Not certified
Storage and Shelf Life	18 months (574 days) from the date of production in original packaging. Store cool dark and dry.
Products used in	UWC Unflavored CBD Oil
Appearance	Clear, white, or slightly off-white crystalline powder
Odor	No significant odor
Consistency	Fine-coarse powdered crystal
Solubility	Soluble at oils and ethanol
Packaging	Clear glass jars with plastic caps
State Hemp Plan Manufactured Under	Colorado

##### Ingredients

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

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

Batch 694 CBD	
Manufacturing Date: 12/08/2021	Batch Size: 10 Kg
Total Quantity Produced (packaging plan based on estimates): 1 g container: 750 5 g container: 850 100g container: 37 Total Allocated to Bulk Purchasing: 1300 g Yield: 100%.	Supplier Lot Codes: Primary Ingredient: KND 410 US

Potency Method: IHCBD_S	
Total CBD	96+%
Tetrahydrocannabinol (THC)	<= 0.05%

Heavy Metals - Method : ICP-MS	
Arsenic	< 30 ppb
Cadmium	< 30 ppb
Mercury	< 10 ppb
Lead	< 50 ppb

Mycotoxins - Method: LCMS/MS	
Total Aflatoxin (B1, B2, G1, and G2)	< 5 ppb
Aflatoxin B1	< 5 ppb
Total Ochratoxin	< 5 ppb



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Microbiological Contamination - Method: Petrifilm	
Total Aerobic Plate Count	< 1,000 CFU/g
Total E. coli / Coliforms	< 100 CFU/g
Total Yeast & Mold	< 1,000 CFU/g
Salmonella spp.	Absent in 25 g
Escherichia coli (STEC)	Absent in 25 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
Heptanes	< 1,000 ppm
Hexane	< 36.6 ppm
Isopropyl Alcohol	< 100 ppm
Methanol	< 87.9 ppm
Pentane	< 200 ppm
Propane	< 1,000 ppm
Toluene	< 38.4 ppm
Total Xylenes (m, p, o-xylenes)	< 430 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
Bifenthrin	< 30 ppb
Chlorfenapyr	< 30 ppb
Chlorpyrifos	< 30 ppb
Clofentezine	< 30 ppb
Coumaphos	< 30 ppb
Cyfluthrin	< 30 ppb



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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
Thiacloprid	< 30 ppb
Thiamethoxam	< 30 ppb



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Trifloxystrobin	< 30 ppb
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DISCLOSURE OF PRODUCT COMPONENTS: OUR LOW THC HEMP EXTRACT PRODUCT, 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: 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: CBD CRUSADE LLC., MANUFACTURER/SUPPLIER OF CBD ISOLATE. 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, ACS, 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	12/7/2020	KOI	Original, added to document registry
1	1/11/2021	KOI	Updated Plant Parts & Increased CBD Spec
2	7/12/2021	KOI	Updated with CDPHE requirements (not pesticides)
3	12/2/2021	HB	Updated Shelf-life & CBD potency, and products used in