



500 South Arthur Ave Unit 300, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com

Specification Sheet : Hemp CBD Isolate

Description

Hemp CBD Isolate is a raw ingredient sold retail as is. It consists of ethanol extracted CBD isolate from Colorado.

General information

Application and Use	Retail research only
Composition	100% Hemp extract by weight
Organic Certification	Not certified
Storage and Shelf Life	24 months from date of production in original packaging. Store cool dark and dry.
Products used in	CBD

Ingredients

Ingredient	Hemp CBD Isolate	Item Code	PSI
Botanical Name	<i>Cannabis sativa</i>	Organic Certification	Not certified
Plant parts used in oil	Stalk, stem, flower	Country of Origin	Colorado, USA

Batch: ISO 0275	Batch Size: 5 kg
Total Quantity Produced (based on projections: a portion of this batch is still being processed) : 1 gram container: 400. 2 gram container: 300. 5 gram container: 150. Quantity allocated to wholesale bulk purchasing: 3.25 kg Yield: 100%	Supplier Lot Codes: Primary Ingredient: 050418

Specification

Appearance	Clear, white, or slightly off-white crystalline powder
Odor	No significant odor
Consistency	Fine-coarse powdered crystal
Solubility	Soluble at oils and ethanol

Assay

Potency - Testing Methods: HPLC, UPLC, SFC, GC	
Total CBD	96+%
Tetrahydrocannabinol (THC)	0%

Heavy Metals - Testing Methods : ICP-MS	
Arsenic	< 50 ppb
Cadmium	< 50 ppb
Mercury	< 10 ppb
Lead	< 50 ppb



500 South Arthur Ave Unit 300, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com

Mycotoxins - Testing Methods: IAC	
Total Aflatoxin	< 20 ppb
Total Ochratoxin	< 20 ppb

Microbiological Contamination - Testing Methods: AOAC 990.12, AOAC 991.14, CMMEF, 3M Method	
Total Aerobic Bacterial Count	< 10,000 CFU/g
Total Coliform Bacterial Count	< 100 CFU/g
Total Bile Tolerant Gram Negative Count	< 1,000 CFU/g
Total Yeast and Mold	< 1,000 CFU/g

Solvents - Testing Methods: GC/MSD	
Propane	0 ppm
Butanes	0 ppm
Pentane	0 ppm
Ethanol	< 100 ppm
Acetone	< 100 ppm
Isopropyl Alcohol	< 100 ppm
Hexane	0 ppm
Benzene	0 ppm
Heptanes	0 ppm
Toluene	0 ppm
Xylenes	0 ppm

Pesticides - Testing Methods: UPLC/MS	
Abamectin 71751-41-2	< 10 ppb
Acequinocyl 57960-19-7	< 10 ppb
Bifenazate 149877-41-8	< 10 ppb
Bifenthrin 82657-04-03 ND ppb	< 10 ppb
Chlormequat chloride 999-81-5	< 10 ppb
Cyfluthrin 68359-37-5	< 10 ppb
Cyfluthrin 68359-37-5	< 10 ppb
Daminozide 1596-84-5	< 10 ppb
Etoxazole 153233-91-1	< 10 ppb
Fenoxycarb 72490-01-8	< 10 ppb
Paclobutrazol 76738-62-0	< 10 ppb
Pyrethrin 8003-34-7	< 10 ppb
Spinosad 168316-95-8	< 10 ppb
Spiromesifen 283594-90-1	< 10 ppb
Myclobutanil 88671-89-0	< 10 ppb
Imazalil 35554-44-0	< 10 ppb
Imidacloprid 138261-41-3	< 10 ppb
Spirotetramat 203313-25-1	< 10 ppb
Trifloxystrobin 141517-21-7	< 10 ppb



500 South Arthur Ave Unit 300, Louisville, CO, 80027
720-726-5132
www.bluebirdbotanicals.com

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: HEMP PRODUCTION SERVICES, SUPPLIER OF ORGANIC HEMP SEED OIL, JEDWARDS INTERNATIONAL, SUPPLIER OF ORGANIC HEMP SEED OIL, ORGANIC OLIVE OIL, ORGANIC BLACK CUMIN SEED OIL, EDEN BOTANICALS, SUPPLIER OF SUPER CRITICAL CO2 EXTRACTED FRANKINCENSE (BOSWELLIA CARTERII) AND CANNABIS ESSENTIAL OIL, PURE SPECTRUM, EBL HEALTH, MANUFACTURERS/SUPPLIERS OF CO2 HEMP EXTRACTS, PHYTO BOTANICALS, MANUFACTURER OF ETHANOL HEMP EXTRACT, HAMMER, MANUFACTURER/CO-PACKER OF GEL CAPSULES. 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, DELTA VERDE LABORATORY, PROVERDE LABORATORIES AND COVANCE INC. ISO ACCREDITED (ISO 17025) ASSAYS ARE PROVIDED BY PROVERDE LABORATORIES AND COVANCE INC. 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.

