



410 South Arthur Ave, Louisville, CO, 80027
 720-726-5132
www.bluebirdbotanicals.com
 05.120.00

Specification Sheet: **CBD Roll-On 250 mg (RO-10)**

CBD Roll-On 250 mg (RO-10) is intended for topical use. Each stick consists of hemp CBD isolate and other ingredients.

Application and Use	Dietary Supplement
Composition	Safflower (<i>Carthamus tinctorius</i>) oil (seed), Cannabidiol (CBD) (from hemp extract (aerial part(s))) isolate, Lavender (<i>Lavandula angustifolia</i>) essential oil (flower), Lemon (<i>Citrus limon</i>) oil (peel).
Allergens	No known
Organic status of raw materials	All ingredients: not certified
Organic Certification of finished product	Not certified organic
Storage and Shelf Life	2 years (730 days) from the date of production in original packaging. Store at ambient temperature.
Internal Sell by Date	365 days from the date of production in original packaging. Store at ambient temperature.
Packaging	10ml amber glass vial with rollerball insert and Plastic cap
Inventory Part	RO-10
Appearance	Light Amber Translucent Oil
Odor	Lavender and mild citrus
Fill Level	9.5 mL - 10.1 mL

Ingredients

Ingredient	Safflower Oil	CAS #	8001-23-8
Botanical Name	<i>Carthamus tinctorius</i>	Organic Certification	Not certified
Plant parts used in oil	Seed	Country of Origin	Mexico

Ingredient	CBD Isolate	CAS #	13956-29-1
Organic Certification	Not certified	Country of Origin	USA

Ingredient	Lavender Essential Oil	CAS #	8000-28-0
Botanical Name	<i>Lavandula angustifolia</i>	Organic Certification	Not certified
Plant parts used in oil	Flower	Country of Origin	Bulgaria

Ingredient	Lemon Oil	CAS #	8008-56-8
Botanical Name	<i>Citrus limon</i>	Organic Certification	Not certified
Plant parts used in oil	Peel	Country of Origin	Italy

Assay

Potency	
Testing Methods: HPLC-DAD	
Total Cannabidiol	250 mg + 10% overshoot 242 - 275 mg/unit will be accepted
Tetrahydrocannabinol (THC)	< 0.01%
Tetrahydrocannabinol (THC) per container (mg)	≤ 0.3 mg/container

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



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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
n-Pentane	< 1000 ppm	2-Butanone (Methylethyl ketone)	< 5000 ppm
N,N-Dimethylacetamide	< 1090 ppm	Isopentane (2-Methylbutane)	< 5000 ppm



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Solvents			
Test Method: GC/MS, HPLC			
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
Cypermethrin	< 1 ppm
Cyprodinil	< 0.01 ppm
Daminozide	< 0.1 ppm
Deltamethrin	< 1 ppm



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Pesticides - Method: AOAC 2007.01, LCMS/MS	
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	< 2 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
Oxamyl	< 0.2 ppm
Paclobutrazol	< 0.01 ppm
Pentachloronitrobenze (Quintozene)	< 0.2 ppm
Permethrin	< 0.2 ppm



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Pesticides - Method: AOAC 2007.01, LCMS/MS	
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	12/6/2022	Harrington Baker	Original, added to document registry