

Colorado Hemp Oil (Cannabidiol- CBD)

What is CBD?

- Chemical compound extracted from the cannabis sativa plant
- Belongs to a class of molecules called cannabinoids
- Legal dietary supplement
- Has many medicinal applications
- Counteracts the negative impacts created by THC- psychoactive chemical found in cannabis
- Binds to special receptors (CB1 & CB2) found on cells in your body- has a higher affinity for CB2 and weakly interacts with CB1
- The cell receptors make up the endocannabinoid system

Human Endocannabinoid System

- Network of cell receptors with many functions
- Physiological system involved in establishing and maintaining human health
- Found all over your body: brain, skin, connective tissue, glands, immune cells, digestive tract & reproductive organs.
- Plays an important role in maintaining homeostasis

How is CBD different from Marijuana?

- Non-psychoactive and does not result in feelings of euphoria
- Does not cause intoxication since it only has trace amounts of THC
- THC has a strong affinity for CB1- found in high concentrations in the brain, which causes the psychoactive effects
- Healing properties without side effects
- Helps with varying ailments
- May cause slight fatigue with overuse

Nanoemulsion Liposomal Delivery System:

- Efficient compound delivery
- Phospholipid encapsulation helps to avoid product degradation by digestive processes
- Increases absorption of the hemp oil 5-10 fold
- Small vesicles allow for fast absorption beginning at the mouth
- Highest grade ingredients
- 3x the amount of hemp oil uptake in the blood at half the dose compared to other products

Medical use of CBD:

Immune Function	Inflammation Reduction	Energy Intake & Storage
Appetite Control & Cravings	Nutrient Transport	Cellular Communication
Emotional Balance	Reproduction	Pain Sensation
Sleep	Bone Growth	Memory

Conditions responsive to CBD:

Cancer	Diabetes	Lupus
Motor Disorders	Nicotine Addiction	Parkinson's Disease
Chronic & Neuropathic Pain	Obsessive Compulsive Disorder	Osteoporosis
Epileptic Disorders	Schizophrenia & Psychotic Disorders	Depression & Anxiety
Psoriasis	PTSD	Fibromyalgia
Glaucoma	Atherosclerosis	
Multiple Sclerosis	Keratosi	Rheumatoid Arthritis

References:

Mercola.com. Why these federal agencies should be abolished.

<https://articles.mercola.com/sites/articles/archive/2016/09/15/medical-marijuana-legalization.aspx>. Accessed October 03, 2016.

Quicksilver Scientific LLC. Liposomal Full Spectrum (0.3% THC) and Broad Spectrum Hemp Extract

Accessed 7/2019 You tube: Chris Shade CBD -

<https://www.youtube.com/watch?v=RsqK6eRVbzI>

The National Organization for the Reform of Marijuana Laws (NORML). Introduction to the endocannabinoid system. Accessed October 05, 2016.

Hemp Oil Benefits. Hemp CBD Oil Natural Medicine. <http://thehempoilbenefits.com/>. Accessed October 03, 2016.

Project CBD. <https://www.projectcbd.org/how-cbd-works>. Accessed October 05, 2016.

Prepared for: Glen Ellyn Pharmacy- Robert Listeki, Pharmacist. 486 Roosevelt Rd, Glen Ellyn, IL

Prepared by: Iman Salim, PharmD Candidate 2017, University of Illinois at Chicago-Rockford

*Statements about this product have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

30 ml Bottle	50 ml Bottle
Price: \$ 50.00	Price: \$ 78.50
Dosing: spray 3-10 pumps under tongue per dose	Dosing: spray 2-4 pumps under tongue per dose

**Doses can range from 1/2 dose once daily to 1 full dose 4 times daily
CBD oil can be used topically as well**

Per bottle instructions for systemic dose; pump liquid under tongue, hold for 30 seconds, and swallow. Follow with a drink and don't eat for 10 minutes. For faster and more complete absorption, take on an empty stomach.