

CHARLOTTE'S WEB™

STANLEY BROTHERS



ORIGINAL FORMULA

50MG/ML

CBD Supports Regular Sleep Cycles*
Supports a Sense of Calm for Focus and Helps Manage Everyday Stresses*
Recovery from Exercise-Induced Inflammation*



This information is intended for use by licensed healthcare practitioners only and is not intended as medical advice.

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



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This **Full-Spectrum Hemp Extract** harnesses the many phytochemicals offered by the hemp plant. The Original Formula is extracted with alcohol, which is then separated from the final extract. The final product is tested for any residual alcohol.

Even though CO2 extraction is the most commonly used method in the industry, our Original Formula has historically been created using isopropyl alcohol (IPA) extraction, and it continues to be extracted by that same method today.

IPA extraction has been likened by Charlotte's Web™ scientists to the process of making herbal tea. It's a very simple, artisanal approach that uses whole-plant material. The result is a dark, rich combination of synergistic compounds that are relatively high in terpenes. The alcohol is removed from the final Original Formula product by means of a gentle heating process, and then re-used many times to prevent waste. Coconut or olive oil is then added as the lipid carrier. The final product is tested at third party independent laboratories for residual solvents.

The flavor profile for our Original Formula is an organic, earthy flavor which is partially masked in the mint flavor. The drop-per bottle delivery system allows for customizable dosing.

50 mg CBD per 1mL, plus additional phytocannabinoids and terpenes.

Suggested use: Take ½ dropperful (0.5 mL) 2-3 times a day.

	UNIT MSRP	UNIT WHOLESALE PRICE
50mg 10mL Mint Chocolate*	\$49.99	\$29.99
50mg 30mL Mint Chocolate / Olive Oil	\$119.99	\$71.99
50mg 100mL Mint Chocolate / Olive Oil	\$274.99	\$164.99

**Only available in 6-pack*



SUPPLEMENT FACTS

Serving Size: 1 Dropper (0.5mL)
Servings Per Container: 60

	Amount Per Serving	%DV
Calories	5	
Total Fat	0.5g	1%
Hemp Extract (aerial parts)	43mg	**
[† Minimum naturally occurring total phytocannabinoids, 25mg]		

*Percent Daily Values (DV) are based on a 2,000 calorie diet.
**Daily Value (DV) not established.

ADDITIONAL INGREDIENTS

Mint Chocolate Flavor: Fractionated coconut oil, organic mint chocolate flavor (organic sunflower oil, natural flavors).

Natural Flavor: Organic extra virgin olive oil.

Gluten Free, Non-GMO, 100% Vegan.



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CBD and supporting phytocompounds present in this full spectrum hemp extract work synergistically to create the entourage effect. Cannabinoid compounds interact with the endocannabinoid system present throughout the body, including CB1 and CB2 receptors, as well as other receptors such as 5-HT, TRP family receptors, GRP and more. Original Formula is the product that was used by Charlotte Figi and launched the CBD industry.

SAMPLE OF SUPPORTING SCIENCE AND CLAIMS:

CBD Supports Regular Sleep Cycles*

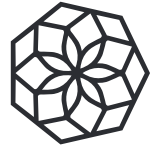
- Patients who reported anxiety and sleep disorders were given CBD capsules, ranging from 25- 175 mg CBD daily, for up to three months. This research was a case study review, rather than a controlled clinical trial, meaning there is inconsistencies in how much and how often the patients took CBD. On average, anxiety and sleep improved for most patients initially in the first month. Over time, anxiety continued to improve in most patients, but sleep improvement was not sustained, and the improvement was only mild over the next months. The participants were also taking various psychiatric medications and the CBD was well tolerated. CBD was most impactful on sleep in the first month. (1)
- A review of CBD clinical research suggests that cannabinoids may favorably impact sleep disturbance, with study participants often reporting a subjective improvement in their sleep quality. (2)

REFERENCES:

- 1 Cannabidiol in anxiety and sleep: A large case series. Perm J 2019;23:18-041. DOI: <https://doi.org/10.7812/>
- 2 Kuhathasan, N., et al. (2019). The use of cannabinoids for sleep: A critical review on clinical trials. Experimental and Clinical Psychopharmacology, 27(4), 383-401. <https://doi.org/10.1037/pha0000285>

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Supports a Sense of Calm for Focus and Helps Manage Everyday Stresses*

- A randomized, placebo-controlled study recreated a situation likely to induce anxiety in most people, namely public speaking. Participants' anxiety levels were measured using subjective self-report and objective physiological measures (e.g., heart rate and blood pressure). The group pretreated with CBD showed significantly less anxiety, cognitive impairment, and discomfort in performing public speaking compared to the placebo group. (3)
- Healthy subjects who were given CBD suggest that the sense of relaxation they reported correlated with the activity in the limbic and paralimbic areas of the brain. They also reported significantly decreased symptoms of anxiety. Subjects receiving placebo did not show the same effects on brain imaging and did not report significant changes in their anxiety. (4)

Recovery from Exercise-Induced Inflammation*

- Plant-derived cannabinoids are anti-inflammatory and immunosuppressive in animal models of arthritis. The mechanisms of action seem to be independent of cannabinoid receptors and causes suppression of pro-inflammatory cytokines that are produced by lymphocytes and macrophages. (5)
- A published review of research cites several studies which demonstrate that CBD supports normalization of systemic inflammation in various settings. CBD was observed to be efficacious in a number of animal models of neurodegenerative and inflammatory environments. (6)

REFERENCES:

- 3 Bergamaschi, Mateus M et al. Cannabidiol reduces the anxiety induced by simulated public speaking in treatment-naïve social phobia patients. *Neuropsychopharmacology*. 36,6, 2011, 1219-26
- 4 Crippa JA et al. Neural basis of anxiolytic effects of cannabidiol (CBD) in generalized social anxiety disorder: a preliminary report. *J Psychopharmacol* 2011; 25:121-130
- 5 Cannabinoid-based drugs as anti-inflammatory therapeutics. *Nat Rev Immunol* 5, 400-411 (2005). doi.org/10.1038/nri1602
- 6 Cannabidiol as an emergent therapeutic strategy for lessening the impact of inflammation on oxidative stress. *Free Radical Biology & Medicine* 51 (2011) 1054-1061. doi:10.1016/j.freeradbiomed.2011.01.007

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Why Charlotte's Web™ CBD?

- We partner with American family farmers who grow only Charlotte's Web proprietary hemp genetics to assure consistency batch to batch.
- All plants are grown using only organic farming practices.
- Extensive testing from soil to final product, including heavy metals, solvents, and pesticides.
- Certificate of Analysis (COA) available online.
- Third Party Audited Certifications: NSF certified for GMP compliance; US Hemp Authority certified.
- Self-affirmed GRAS and peer-reviewed published toxicology study.
- Certified B Corporation.

