

EndoBlend™

Designed for those experiencing discomfort by supporting the endocannabinoid system through a blend of ingredients in virgin hemp oil*

- Cold-pressed, non-GMO virgin hemp oil
- ✓ High dose black pepper**
- ✓ Two flavor options –
 Spiced Chai and Warm Citrus
- ✓ Comprehensive endocannabinoid support^{1,2,5}*



Key Ingredients

Cold-pressed, virgin hemp oil (Cannabis sativa)

 Contains precursors for the biosynthesis of arachidonylethanolamide (AEA) and 2-arachidonoylglycerol (2-AG), two naturally occurring endocannabinoids^{1,2}

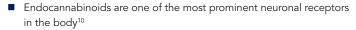
Palmitoylethanolamide (PEA)

- Fatty acid amide produced by most cells in the body to monitor immune function^{3,4}
- PEA has been found to support endocannabinoid function by increasing the activity of AEA and 2-AG while also decreasing the degradation of those endocannabinoids⁵⁻⁸
- Attaches to PPAR-alpha receptor which is responsible for influencing the NF-kB cascade and immune response⁴

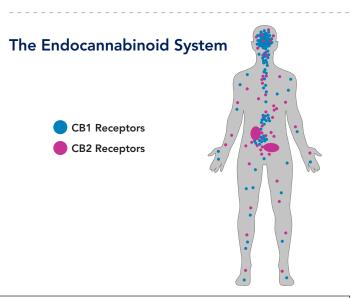
Betacaryophyllene 80% (*Piper nigrum*)

 Naturally occurring isolate from black pepper has been shown in vitro to bind and activate CB2 receptors^{9*}

The Science



- These receptors have a wide variety of functions, including synaptic communication and immune regulation¹¹
- CB1 receptors are found primarily in the brain, while CB2 receptors are located more in the immune and gastrointestinal (GI) systems¹²

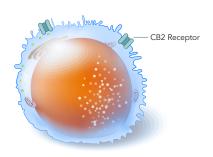


*These statements have not been evaluated by the Food and Drug Administration.
This product is not intended to diagnose, treat, cure or prevent any disease.

^{**} Relative to products in the market

MORE SCIENCE BEHIND ENDOBLEND

Figure 1. Lymphocytes Can Express CB2 Receptors



The importance of CB2 receptors

CB1 receptors are concentrated in the brain, while CB2 receptors are focused peripherall¹²

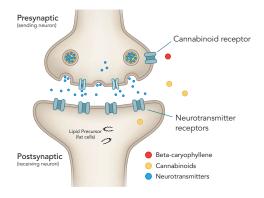
CB1 receptors can produce a psychotropic effect¹²

CB2 receptors found in the peripheral nervous system are involved in signaling along the GI tract and immune system¹³

- Lymphocytes can express CB2 receptors, which can directly impact the immune response¹³
- Additionally, they may be involved in ion channels responsible for communication throughout the GI systems¹³

The ingredients in EndoBlend Virgin Hemp Oil are designed to support the CB2 receptors and the peripheral nervous system^{1,2,9}*

Figure 2. Endocannabinoid Neuronal Modulation



Supporting healthy neurons

Misfiring or enflamed neurons can cause discomfort14

Improperly sent and received action potentials can cause discomfort since the signal does not match the stimulus¹⁴

Ingredients in EndoBlend Virgin Hemp Oil support neuronal function from differing mechanisms9,15*

- Components naturally found in hemp have been shown to improve neuronal function15*
- Naturally occurring PEA in the body regularly affects neuronal signaling through calcium and potassium channels⁴
- Beta-caryophyllene directly binds to CB2 receptors and helped reduce discomfort in a pre-clinical trial9*

Together, these ingredients function to promote comfort and healthy neuronal status in the peripheral nervous system^{9,15}*

Rigorous, product specific third-party testing to guarantee label claims and the absence of heavy metals, pesticides, residual solvents, and microbes

Tested and confirmed to be within THC regulations

Spiced Chai

Suggested Use: Take 1 tablespoon (15 mL) daily. When starting supplementation, consider taking 1 tablespoon (15 mL) twice daily or as directed by your healthcare provider Supplement Facts

Serving Size: 1 Tablespoon (15 mL) Servings Per Container: 15 Amount Per Serving % Daily Value* Calories 48 Total Fat Saturated fat 0 g Monounsaturated fat 0% Total Carbohydrate Total Sugars 30%

Proprietary Blend Hemp (*Cannabis sativa*) seed oil, Palmitoyletha amide (PEA), and Black pepper (Piper nigrum) fruit extract (80% beta-caryophyllene). Percent Daily Values are based on a 2,000 calorie die

† Daily Value not established. Other Ingredients: Almond butter (100% almonds) Purified water, Glycerin (vegetable source), Natural flavors, Sunflower oil[‡], Organic cocoa powder, Sunflower lecithin[‡], and Gum acacia.

Contains Tree Nuts (Almonds).

L20051EBSC8.01

L20052EBWC8.01

Warm Citrus

Serving Size: 1 Tablespoon (15 mL)

Suggested Use: Take 1 tablespoon (15 mL) daily. When starting supplementation, consider taking 1 tablespoon (15 mL) twice daily or as directed by your healthcare provider. Supplement Facts

Servings Per Container: 15 mount Per Serving % Daily Value Polyunsaturated fa Monounsaturated fat Cholesterol Total Carbohydrate 0 mg roprietary Blend Hemp (Cannabis sativa) seed oil, Palmitoylethanol-amide (PEA), and Black pepper (Piper nigrum) fruit extract (80% heta-carvonhyllene)

Percent Daily Values are based on a 2,000 calorie diel

Other Ingredients: Sunflower oil*, Purified water, Glycerin (vegetable source), Xylitol, Natural flavors, Oleic acid (from oilve oil), and Gum acacia.

Freitas H, et al. Nutr Neurosci. 2018;21(10):695-714. Petrovic M, et al. Food Chem. 2015 Mar 1;170:218-25. Mattace Raso G, et al. Pharmacol Res. 2014;86:32-41. Solorzano C, et al. Proc Natl Acad Sci USA. 2009;106(49):20966-71. Di Marzo V, et al. Biochem J. 2001;358(Pt 1):249-55. De Petrocellis L, et al. FEBS Lett. 2001;506(3):253-6. Ho W. Et al. Br J Pharmacol. 2008;155(6):837-46. Petrosino S, et al. Br J Pharmacol. 2016;173(7):1154-62. Maffei M. Nutrafoods. 2018;17:N12-N23.

NeuroScience®

Item Number	Available Sizes	Serving Size
20051	- 8 fl oz	1 Tablespoon
20052		

- Zanettini C, et al. Front Behav Neurosci. 2011;5:57.
 Callen L, et al. J Biol Chem. 2012 Jun 15;287(25):20851-6
 Mackie K. J Neuroendocrinol. 2008 May;20 Suppl 1:10-4.
 Dhopeshwarkar A and Mackie K. Mol Pharmacol. 2014 Oct;86(4): 430-437.
 Scholz J and Woolf CJ. Nat Neurosci. 2007 Nov ;10(11):1361-8.
- Manzanares J, et al. Curr Neuropharmacol. 2006 Jul;4(3):239-257.

[‡] Non-GMO ingredient

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