

# Endocannabinoid System (ECS) Support

Hemp Oil and Hemp Oil Complex™



HEMP OIL COMPLEX

DIETARY SUPPLEMENT Suggested Use: Two softgels per day,

WHOLE FOOD SUPPLEMENTS SIN

Two options, each with 15 mg of phytocannabinoids per serving, to support one of the body's most important systems\*

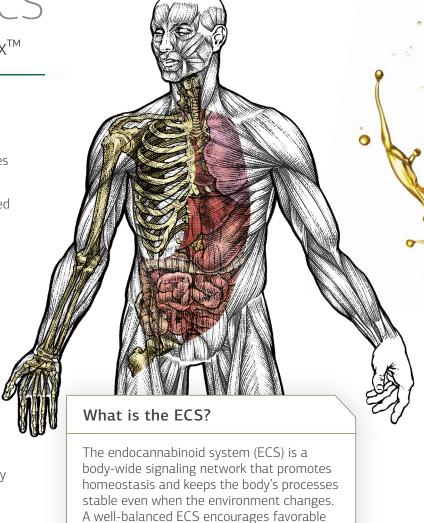
\*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

# Help Support the ECS\*

with Hemp Oil and Hemp Oil Complex™

#### The ECS helps to support:

- Central Nervous System: Facilitates regeneration of neurons, synaptic plasticity, and neuroprotection. Regulates motor neuron activity and cognition.<sup>1-2</sup>
- Digestive System: Regulates motility, gut-/brain-mediated food intake signaling, inflammation, gut permeability, and gut microbiome interactions.<sup>3</sup>
- **Hormones:** Plays a significant role in the function of hypothalamic-peripheral endocrine axis for metabolic hormone release. Contributes to stress response by influencing hypothalamic-pituitary-adrenal axis.<sup>4</sup>
- Bones: Plays an important role in bone homeostasis by maintenance of bone mass/density and bone resorption.<sup>5</sup>
- Immune Response System: Supports healthy inflammatory response pathways. 6-8
- Metabolism: Constitutes a feedback loop for nutrientenergy metabolism. Regulates various cellular functions, intestinal functions, immune responses, and stress responses. Supports physiological homeostasis in the body as cannabinoids co-evolve with diet.<sup>9-13</sup>
- **Muscles:** Improves muscle glucose uptake, mitochondrial energetics, and supports runner's high.<sup>14-15</sup>



# Why choose Hemp Oil or Hemp Oil Complex from Standard Process?







#### Grown on our Organic Farm

body conditions.

Our hemp is proudly grown on our certified organic farmˆ, which helps preserve its exceptional quality From Seed to Supplement™. Our hemp comes from organic, non-GMO strains. The base hemp oil ingredient boasts a diverse array of phytocannabinoids, terpenoids, and a fresh taste that's highlighted by citrus notes.

#### **Exceptionally Clean Production Techniques**

Utilizes  ${\rm CO_2}$  instead of organic solvents. The result is an oil that is pure, potent, and contains no CBD isolates — which are considered drugs by the FDA and DEA.

#### Strict Quality Standards

Each batch of hemp oil is independently tested to ensure it lives up to our high expectations. The result is an ingredient that is pure, potent, and certified organic.



Standard

HEMP OIL
General Well-Beina

DIETARY SUPPLEMENT 4710

Net 30 mL (1 fl oz)
WHOLE FOOD SUPPLEMENTS

### Hemp Oil Complex™







Suggested Use: Two softgels per day, or as directed.

A unique formulation of ingredients, combined to provide a 3-in-1 benefit for the whole body – supporting the endocannabinoid system, inflammation response resolution pathways, and endogenous antioxidant pathways.\*

- Contains full spectrum, organic, non-genetically engineered hemp, grown on the Standard Process certified organic farm<sup>^</sup>
- · Contains 15 mg phytocannabinoids
- Combination of natural omega-3 fatty acids, including DHA and EPA
- Calamari oil certified sustainable from the independent nonprofit group Friend of the Sea®

## Hemp Oil













Suggested Use: One full dropper (1 mL) per day, or as directed.

Provides 15 mg of phytocannabinoids per serving to support the endocannabinoid system.\*

- Contains full spectrum, organic, non-genetically engineered hemp, grown on the Standard Process certified organic farm<sup>^</sup>
- Liquid form
- · Convenient, flexible dosing with a graduated dropper

#### To learn more, visit **standardprocess.com**

Standard Process products labeled as **Vegan** are devoid of animal-based tissue, animal-based gelatin, or fish oils. They are also devoid of animal-based ingredients such as dairy, eggs, honey, beeswax, and lanolin. **Vegetarian** are considered lacto-ovo vegetarian, which means they are devoid of animal-based tissue, animal-based gelatin, or fish oil. They may contain animal-based ingredients such as dairy, eggs, honey, beeswax, or lanolin. **Gluten-Free** have been tested to verify they meet the regulations associated with the United States Food and Drug Administration's gluten-free labeling. **Non-Dairy or Non-Dairy Formula** have been formulated to not contain milk or milk-derived ingredients. **Non-Soy or Non-Soy Formula** have been formulated to not contain soy or soy-derived ingredients. **Non-Grain or Non-Grain Formula** have been formulated to not contain any true cereal grain or grain-derived ingredients such as those from wheat, rice, oats, cornmeal, barley, or another cereal grain. **USDA Organic** means they have been certified as Organic by a USDA-accredited certifying agent.



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## Together, We Can Change Lives

Changing lives is our passion and has been since our company's inception in 1929. This passion is what drove our founder, Dr. Royal Lee, to develop and pioneer the first whole food-based supplement on the market, the revolutionary Catalyn<sup>®</sup>.

#### At Standard Process:

We change lives with our whole food philosophy.

We grow ingredients on our certified organic farm in Wisconsin.

We're serious about quality.

We make products to support the health of the whole family.

We partner with health care professionals.

We've been trusted for generations. Our products have been changing lives since 1929.

- Xu JY and Chen C. Neuroscientist. 2015 Apr; 21(2): 152–168. Published online 2014 Feb 25. doi: 10.1177/1073858414524632
- 2. Katona I, Freund TF. Annu Rev Neurosci, 35:529-58, 2012
- 3. N.V. DiPatrizio, Cannabis Cannabinoid Res, 1:67-77, 2016.
- Pagotto U, et al., Endocrine Reviews, Volume 27, Issue 1, 1 February 2006, Pages 73 100, https://doi.org/10.1210/er.2005-0009
- 5. Rossi F et al., Int J Mol Sci. 2019 Apr; 20(8): 1919.
- 6. Chiurchiù V, Battistini L, Maccarrone M. Immunology (2015) 144:352-64. doi:10.1111/imm.12441
- 7. Chiurchiù V. Cannabis Cannabinoid Res (2016) 1:59-66. doi:10.1089/can.2016.0002
- Zhou J, Burkovskiy I, Yang H, Sardinha J, Lehmann C. Front Pharmacol (2016) 7:264. doi:10.3389/ fphar.2016.00264
- 9. N.V. DiPatrizio, "Endocannabinoids in the gut," Cannabis Cannabinoid Res, 1:67-77, 2016.

- Cani PD et al., Endocannabinoids at the crossroads between the gut microbiota and host metabolism Nature Reviews Endocrinology volume 12, pages133–143(2016)
- Horvath B., Mukhopadhyay P., Hasko G., Pacher P. The endocannabinoid system and plant-derived cannabinoids in diabetes and diabetic complications. Am. J. Pathol. 2012;180:432–442. doi: 10.1016/j.ajpath.2011.11.003
- 12. Gertsch, J., Cannabimimetic phytochemicals in the diet an evolutionary link to food selection and metabolic stress adaptation? Br J Pharmacol, 2017. 174(11): p. 1464-1483.
- Li C et al., Role of the endocannabinoid system in food intake, energy homeostasis and regulation of the endocrine pancreas. PharmacolTher. 2011 Mar;129(3):307-20. doi: 10.1016/j. pharmthera.2010.10.006. Epub 2010 Nov 3.
- Heyman E et al., Obesity Reviews. Volume13, Issue12 December 2012, Pages 1110-1124. https://doi.org/10.1111/j.1467-789X.2012.01026.x
- Fuss J et al. PNAS October 20, 2015 112 (42) 13105-13108; first published October 5, 2015 https://doi.org/10.1073/pnas.1514996112

















