The Endocannabinoid System (ECS): An Important System for Whole Body Balance

The ECS supports various functions in the body system. These may range from eating, sleeping, and relaxing, to more complex functions like neuroplasticity, metabolism, and inflammatory processes. A well-balanced ECS may support the regulation of systemic metabolism and support physiological homeostasis.\(^1,2,3,4\)

The ECS and Healthy Inflammatory Response Processes

It has been shown that omega-3 fatty acids and their lipid mediators support activation of resolution pathways of the inflammation response, which is supported by receptors of the ECS.\(^5,6,7,8,9\)

A Question of Balance: Ratio of PUFAs and Phytonutrients

Some phytonutrients found in whole foods and whole food-based ingredients may play an important role in the activation of CB receptors.

Hemp Oil Complex™ is a convenient softgel providing glucoraphanin, omega-6 and omega-3 (DHA, EPA).

The key ingredients in Hemp Oil Complex™ are calamari oil, hemp oil (stalk and seed) TrueBroc®, and broccoli (aerial parts).

TrueBroc® is a trademark of Brassica Protection Products and is protected under U.S. Patent 8,927,007
How PUFAs Support the ECS and a Healthy Inflammatory Response Process

Endocannabinoids are derivatives of PUFAs (mainly specialized endocannabinoid-derived lipid mediators) and are critical in supporting the ECS.11,12,13 The plant-based phytocannabinoid-derived lipid mediators found in hemp oil may help to support the endocannabinoid tone within the body.14 Dietary supplementation of DHA and EPA induces changes in omega-3 derived endocannabinoid production.15,16 Furthermore, the hemp oil-derived fatty acids support the key inflammatory cascades involved in the resolution phase of the inflammation process, and therefore, a balanced essential fatty acid profile is critical in supporting the body’s physiological tone and healthy inflammatory response processes.17

The Benefit of TrueBroc® – Glucoraphanin from Broccoli

Cruciferous vegetables like broccoli are rich in sulfur-containing compounds called glucosinolates.18 The biological actions of glucosinolate-derived isothiocyanates help support cellular antioxidant capacity.19

REFERENCES


We harvest more than 6.5M pounds of ingredients on our certified organic and sustainable farm.