



**Cannabidiol (CBD)** a naturally occurring plant compound found in the flower of cannabis, a plant with a rich history as a medicine going back thousands of years.

**Lymphocytes:** cells of the immune system that help fight infection. Lymphocytes live in lymph nodes, but also in the blood stream and all over the body. Lymphocytes come in two main types: B-cells and T-cells.

**Antigen:** a substance that is capable of stimulating an immune response, specifically activating lymphocytes, which are the body's infection-fighting white blood cells.

**Apoptosis** (also called programmed cell death, in biology): a mechanism that allows cells to self-destruct when stimulated by the appropriate trigger. Apoptosis can be triggered by mild cellular injury and by various factors internal or external to the cell; the damaged cells are then disposed of in an orderly fashion.

**Immunomodulation:** any process in which an immune response is altered to a desired level. Microorganisms are also capable of modulating the response of the immune system to their presence, in order to establish or consolidate an infection.

## About US

dwel CBD was started as a means to provide premium quality CBD and CBD-infused products with unmatched service and unparalleled commitment to our community.

Our commitment to providing world-class products and improved quality of life for people and animals is a passion for everyone at dwell, and we are committed to being good stewards of our natural resources to earn and retain the confidence our customers have placed in our company and products.

## Our Mission

To provide our customers with the highest quality CBD & CBD-infused products available, while serving our community with a commitment and dedication to wellness for everyone!



dwel cbd  
 173 E. Brannon Road  
 Nicholasville, KY 40356  
 859.554.5011  
[www.dwellcbd.com](http://www.dwellcbd.com)



# CBD for Immunity

D W E L L

CBD

*wellness for life*

## CBD and the Immune System

We are constantly exposed to infectious diseases, bacteria and viruses (antigens), all wreaking havoc with our health and wellness. Our immune system is a complex network of cells, tissues and organs, running constantly in our bodies with precision to keep us healthy.

A key player in the immune system's arsenal are white blood cells or leukocytes, which seek out and destroy any unwanted visitors. Leukocytes can be divided into two groups: 1) lymphocytes (B cells and T cells) that destroy antigens and help the body to remember previous attackers; and 2) phagocytes that absorb and neutralize foreign intruders.



Our immune system also plays a key role in detecting malfunctioning cells inside our bodies, and, through the process of apoptosis or cell death, ensures that these cells do not continue to grow and become tumors.



## Endocannabinoid Immunity <sup>x</sup>

Optimum immune function entails a complex balancing act that relies on constant communication between our immune cells, tissues, and organs. With the discovery of the endocannabinoid system (ECS) in the 1990s, scientists found another key piece of the puzzle.

The endocannabinoid system comprises two main G protein-coupled receptors (CB1 and CB2), endogenous ligands known as endocannabinoids (anandamide and 2-AG), and proteins that transport our body's endocannabinoids and enzymes.

The ECS is a homeostatic regulator – continually working to maintain a state of biological balance. Endocannabinoids are produced on demand and travel across chemical synapses. This explains why the ECS is termed a homeostatic regulator – continually working to maintain biological balance.

Endocannabinoids act upon immune cells directly and indirectly through the CB2 receptor. Studies have shown CB2 receptor activation creates an anti-inflammatory effect and can therefore be a therapeutic target for autoimmune disorders and neurodegeneration. Studies have also shown CBD improves our health by interacting in different ways with the ECS, and thereby helping our immune system!



*Dwell CBD products are all proudly grown and formulated in KY!*

At dwell CBD™ we take the science of hemp-derived cbd and cbd-infused products very seriously. dwell CBD™ is not simply a brand; it's a lifestyle and a commitment to wellness, through enriched natural resources and a focus on purity.

Our culture is as simple and pure as the process we implement for our products. Clean, honest and dedicated team members will continue to be the face of dwell CBD™ - because they are your friends, neighbors and family, they are the people you know and trust, they are the people who care about your health and wellness for life. Welcome to the family!

dwell CBD™ operates under the Kentucky Department of Agriculture in association with producers and farmers - within section 7606 of the U.S. Farm Bill and the laws of the State of Kentucky.

