

A Summary Comparison of THC, THCA, and CBD

THCA has been shown to be more effective than THC or CBD for regulating the functions that support the endocannabinoid system while reducing pain caused by inflammation. It is well known that THC and CBD are effective for improving mood in response to physical pain, however they do a little to influence the causes of pain or systemic disease in comparison to THCA. Patients that use THCA prefer it to CBD or THC for long-term synergistic benefits that restore health and wellness which influences mood. The chart below demonstrates that cannabinoids are biphasic in nature and work in yin yang relationship. CBD acts as an indirect antagonist and THC as an agonist when it contacts CB1 receptors.

Known dosage effects

	THC	THCA	CBD
Psychoactivity	INCREASES	NONE	DECREASES
Mood enhancement	INCREASES	NONE	INCREASES
Appetite	INCREASES	NONE	DECREASES
Inflammation	SLIGHT DECREASE	DECREASES	NONE
Physical Pain	SLIGHT DECREASE	DECREASES	NONE
Neuropathic Pain	SLIGHT DECREASE	DECREASES	SLIGHT DECREASE

Known over dosage effects

	THC	THCA	CBD
Psychoactivity	DECREASES	NONE	INCREASES
Mood enhancement	DECREASES	NONE	DECREASES
Appetite	DECREASES	NONE	NONE
Inflammation	SLIGHT DECREASE	NONE	NONE
Physical Pain	SLIGHT DECREASE	NONE	NONE
Neuropathic Pain	SLIGHT DECREASE	NONE	NONE

The comparison indicates that the effects of THCA influence the endocannabinoid system and not the CB1 receptors. THCA influences the system in contrast to the in-direct effects of THC or CBD after it has been converted to THCA and CBDA in trace amounts during the process of metabolization. See together, these charts demonstrate that THC and CBD are biphasic and have the inverse effects when consumed at excessive levels. Over dose levels are variable from person to person.

How THCA works:

THCA affects four functions of the endocannabinoid system: (a) Releases COX-1, (b) Inhibits COX-2, (c) Inhibits TNF-Alpha, (d) Releases interleukin-10. THC and CBD do not have the same wide spectrum of effects on the system as THCA.

Know uses:

THCA modulates the autonomic nervous system, the auto immune system, and microcirculation. It is known to relieve pain due to inflammation and to have anti-convulsant, anti-spasmodic, and antioxidant properties. It is reported to be immune supportive and be antiproliferative (anticancer) however, clinical results are currently unavailable.

Applications:

- May be used internally as a digestive or as a suppository for infirmed patients.
- May be used as a topical for sore muscles, bruising, insect bites, rashes, mild abrasions, and certain skin conditions.
- THCA is known to be compatible with other cannabinoids including THC, CBD, CBN, and CBG.

Information sources:

- Publications and lectures of Professor Raphael Mechoulam PhD. His main contributions are in the field of the constituents of cannabis and the endogenous cannabinoids found in the brain and the periphery.
- Lectures of William Courtney, MD. His main contributions are in the field of uses of THCA in the form of raw juiced cannabis for treatment of diseases.
- Medical Acids Cannabinoids, United States Patent Number US 7,807,710 B2

“Jerry Reilly was the first end-stage cancer patient on record to use the Alta California Botanicals high CBD tincture and THCA. The tinctures were successful for complete pain control.”

— December 2013, Sarah Reilly CNE, CNC, daughter of Jerry Reilly

Learn more about THC, THCA, CBD and the people that use them at www.CBDScience.com