

Safer Pain Relief

CBD CLINIC ointments and creams are topically-applied to treat pain, versus oral medications that can have side effects. Because CBD CLINIC products work topically via the peripheral nervous system, ingredients do not enter the bloodstream.

The Value of FDA Oversight

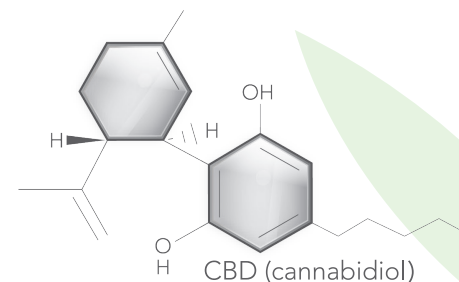
All CBD CLINIC products are registered with the FDA and are made in an FDA-audited facility. This is important because it helps ensure the highest quality controls in raw ingredients, manufacturing and packaging. This includes independent verification of the quantity of active ingredients in every batch made—so you can be assured of consistent product effectiveness.

CBD CLINIC is the first and only family of FDA-registered topical non-prescription medications formulated with cannabidiol (CBD).



CBD CLINIC™
Revolutionary Pain Relief

The Natural Science Behind Our Pain Relief Revolution



**FOR ADDITIONAL INFORMATION,
PLEASE CONTACT THE COMPANY AT:**

303.223.0863 | cbdclinic.co | info@cbdclinic.co

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After a decade of research and development, a major breakthrough in topical pain relief is now a reality.

According to the US National Institutes of Health (NIH), pain affects over 100 million Americans (nearly 1/3 of the US population; more than diabetes, heart disease and cancer combined). Acute and chronic muscle and joint pain affects people of all ages, genders lifestyles and ethnic origins, so there is great demand for safer and more effective pain relief products. Yet, **there has not been a major breakthrough in topical pain relief in over 50 years ...until now.**

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The CBD CLINIC **pain-relief breakthrough is rooted in three foundational components** for delivering rapid and lasting relief from joint and muscle pain: Natural Emollients, Powerful Terpenes and Endocannabinoid Modulators. CBD CLINIC analgesic ointments and creams were developed to provide extraordinary relief from musculoskeletal pain associated with daily living, sports injuries, arthritis, chronic medical conditions, and several other types of inflammation.

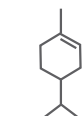
Natural Emollients

The most important objective of a topical pain relief product is to reach the muscles and joints so you can receive rapid and long-lasting relief. Most topical analgesic products use cheap, synthetic ingredients for their

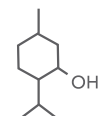
base, including benzyl alcohol, cetyl alcohol, diglycol stearate, glyceryl monostearate, petrolatum, etc. CBD CLINIC's first breakthrough was developing a proprietary method for making ointments and creams with 100% natural emollients (including organic beeswax, jojoba seed oil, cottonseed oil and shea butter) to help speed absorption of pain-relieving ingredients to the root of pain and discomfort.

Powerful Terpenes

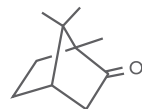
Terpene molecules (C₁₀H₁₆) produce analgesic action in acute and neuropathic pain by decreasing neuronal excitability through peripheral mechanisms. Terpenes are aromatic organic hydrocarbons found in



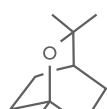
Limonene
(citrus)



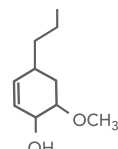
Menthol
(mint)



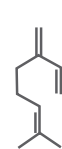
Camphor
(camphor)



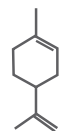
1,8-Cineole
(eucalyptus)



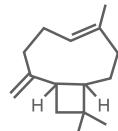
Eugenol
(Clove)



Myrcene



D-Limonene



Caryophyllene

the essential oils of plants. They produce the distinct aroma associated with each plant. The therapeutic effects of terpenes are widely recognized. Menthol and Camphor are the two most widely used terpenes in topical pain management today. Other terpenes in CBD CLINIC products -- including Eucalyptus, Clove and Peppermint -- are combined with Menthol and/or Camphor in a proprietary process that represents another breakthrough.

Endocannabinoid Modulators

In the mid-1990s, discovery of the Endocannabinoid System enabled a major breakthrough in new therapies for reducing pain, inflammation and other ailments. The Endocannabinoid System is a group of endogenous receptors located in the mammalian brain and throughout the central and peripheral nervous systems, consisting of neuromodulatory lipids and their receptors.

The endocannabinoid receptor system plays a significant role in regulating neurotransmitter function. One receptor that is being actively studied is called CB1. It is found in spinal and peripheral nervous tissue (including areas important for pain perception). Although research into modulation of the endocannabinoid system is still in its early phases, studies published in the British Journal of Pharmacology and elsewhere have reported that **some terpenes been identified as an allosteric modulator capable of slowing down neurotransmitter signaling**⁵. These findings help us understand the potential therapeutic benefits that certain terpenes may have with pain perception and how they can support faster reductions of pain.

By formulating non-prescription analgesic (pain-relieving) creams and ointments for faster absorption with natural emollients, powerful pain-relieving terpenes targeting endocannabinoid modulators, revolutionary pain management is now a reality.

