



## What Does Nanoscience Have to Do with the Cannabis Sector?

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MCTC Holdings, Inc., doing business as Cannabis Global, actively collaborates with other companies and Contract Research Organizations so as to advance cannabinoid delivery science by means of polymeric cannabinoid nanoparticles and nanofibers with the ultimate aim of adding them into consumer products and marketing those products which are confidently expected to demonstrate superiority over their conventional counterparts.

MCTC Holdings, Inc. (OTC PINK:MCTCD)(OTC PINK:MCTC) today outlines its efforts to advance cannabinoid delivery science via polymeric cannabinoid nanoparticles and nanofibers. The Company has contracted with two Contract Research Organizations (CRO), which continue to make advances in both cannabinoid nanosciences and toward productization of these and related technologies. The Company is planning to market and license numerous products that will offer superior bioavailability, sustained release properties and customization of cannabinoids combinations.

MCTC collaborated with [Cannabis Nanosciences, Inc.](#) on technologies, which became the basis for the Company's first patent filing on a unique edible dissolvable nanoparticle enhanced film for delivery of cannabinoid, vitamins and other active ingredients. MCTC's second patent filing was based on research completed by the Company, Cannabis Nanosciences and a CRO, which specializes in polymeric nanoparticles. This patent emphasizes on a form of cannabinoid nanoparticles combined with d- $\alpha$ -Tocopheryl polyethylene glycol 1000 succinate, known as TPGS, which is a proven bioenhancer based on non-GMO sunflower oil.

"Our R&D program is squarely focused on developing improved methods to deliver cannabinoids to the human body through the use of [nanoparticles](#), [nanofibers](#) and unique formulations, some of which will include TPGS, commented Arman Tabatabaei, CEO of the Company. "Even though we are a small company, some of the developments are on the cutting edge of cannabinoid delivery research. We plan to aggressively expand our intellectual property portfolio over the coming weeks and months via multiple additional

patent filings."

MCTC recently announced its researchers had achieved sub-micron sized particles of cannabidiol (CBD) with and without inclusion of TPGS as a bioenhancer. Work continues on numerous other forms on nanoparticles containing cannabinoids and other compounds. Additionally, the Company has developed several formulations of nanofibers for transdermal applications and other non-nanotechnology cannabinoid delivery systems.

Common shares of MCTC Holdings, will trade as of September 30, 2019 for twenty trading days, under the symbol MCTCD to reflected a stock split effective as of September 30, 2019.

Mr. Tabatabaei continued, "The polymer based nanoparticles we are developing should not be confused with the simple oil-in-water nanoemulsions being marketed as interim solutions to the food and beverage industry, as these two technologies are significantly different. The polymer based particles we are developing will allow for significant loading of active ingredients and unparalleled flexibility in creating custom cannabinoid combinations with unique performance characteristics. We believe this will be an important technology area for the cannabinoid formulation marketplace."

Read the [original article](#) on Accesswire.