



DehydraTECH Summary Deck

Presented by:



Hill Avenue Cannabis is the exclusive worldwide owner of the rights to use DehydraTECH™ technology in the production and sale of THC products

To learn more, please visit our website at www.dehydratech-thc.com

To get in touch, please contact us at info@hillavecannabis.com

What is DehydraTECH™

DehydraTECH™ is an elegant **Self Emulsifying Drug Delivery System** (SEDDS) developed and patented by Lexaria Bioscience Corp., and licensed exclusively to Hill Avenue Cannabis for use with THC products.

It can be applied to cannabinoid molecules (such as THC) as well as many other bioactive substances.

SEDDS technologies are used in high-end pharmaceutical biodelivery processes and are a scientifically proven means of enhancing oral bioavailability of poorly soluble substances

Laboratory and market proven, DehydraTECH™ is continually undergoing both animal and human clinical trials and studies (by Lexaria) to improve and demonstrate its effectiveness and performance.

How Does DehydraTECH™ Happen?

DehydraTECH™ coats the THC molecule with a specific long chain fatty acid (LCFA) and through a precise dehydration process combines it with standard product ingredient.

The THC is temporarily “locked” within the substrate like a Trojan Horse, ideal for enabling rapid and more complete delivery into the human body upon dosing. Because the fatty acids effectively mask the bitterness associated with plant-derived THC extracts, DehydraTECH™ formulations optimize palatability and organoleptics.

Better For Your Body – and Product

DehydraTECH's LCFA is very similar to the body's chylomicrons, and as such, the LCT-associated CBD molecule enters the blood stream in minutes directly via the thoracic duct, into the lymphatic system and is sent directly to the peripheral tissues, mimicking chylomicrons and avoiding first-pass liver metabolism.

By avoiding first pass metabolism in the liver, DehydraTECH™ avoids the 75% to 85% THC liver degradation of other delivery methods, thus preserving the THC's bioavailability and prescribed dosage.

Because the THC is enveloped within a long chain fatty acid, biodelivery and absorption is not dependent on the amount of fat in the person's diet.

Because DehydraTECH™ “locks” the THC to the substrate, potency, stability and shelf life is exponentially increased.

DehydraTECH™ Integrates Easily



Lower Volume

By locking to an existing ingredient, DehydraTECH™ provides more ingredient space with no disruption to the formula.



Flexible to Applications

DehydraTECH™ can be used for most current form factors.
Odorless, tasteless.



Greater Efficiency

DehydraTECH™ was designed specifically to measurably increase bioavailability in humans

Precise Dosing

DehydraTECH™ can deliver precise, repeatable dosing for multiple formats and ingredients mixes.
Most other technologies require drastic alterations to existing formulas

Adaptable to Processes

DehydraTECH™ flows into existing product designs without disrupting ingredients or manufacturing flow.
Its natural and potent flavor/odor masking means you don't need to add flavor enhancers and sweeteners.

Greater Value

Companies can radically increase the effectiveness & “wow” factor of their products without formula alterations or manufacturing retooling.

Affordable and Effective

Because DehydraTECH™ locks to ingredients common to most form factors, use of “third-party” carriers and additional transport vehicles is not needed. **Standard substrates such as dextrose, lactose, tapioca, cocoa, inulin, and gum arabic can be used.**

DehydraTECH™ does not disrupt the manufacturing process and does not require additional steps in batching to introduce THC to the product.

Dosing is repeatable and precise, minimizing waste.

DehydraTECH™ natural and potent flavor and odor masking means that no additional flavor enhancers and sweeteners are needed.

R&D and product development costs are reduced from up to several years to a few months.

About Us

DehydraTECH™ technology was first developed in 2014 by Lexaria Bioscience Corp., a global innovator in drug delivery platforms. Today, the DehydraTECH™ intellectual property portfolio consists of over 28 granted patents and approximately 50 patents pending worldwide.

Hill Avenue Cannabis acquired the exclusive global rights to use the DehydraTECH™ technology to power THC cannabis products in late 2020.

Hill Avenue Cannabis is the DehydraTECH™ THC technology licensing, product development and commercialization partner to progressive cannabis brands worldwide who are committed to bringing exceptional, best-in-class cannabis products to market.

Lexaria continues to commercialize the ground-breaking DehydraTECH™ technology for use with pharmaceutical, hemp-derived CBD, nicotine, anti-viral drug and other applications.