



BIOLINEAR TECHNOLOGIES INC. PRESENTS:

The GelPatch Transdermal Cannabinoid Delivery Technology

Transdermal delivery of active ingredients is arguably the best delivery platform, second only to intravenous injection.

Key benefits of Transdermal Delivery include:

- ◆ Delivery of active ingredient directly into the bloodstream (systemic circulation).
- ◆ Active ingredient is not subject to First Pass Metabolism (where as much as 85% of the cannabinoid can be destroyed/alterd) as it does not go through the Gastrointestinal Tract.
- ◆ Typically a slow release of active ingredient as it takes time for the ingredient to pass through the dermis. Far superior to the typical macro-dose (huge amount of ingredient all at once) of CBD tinctures, edibles, etc.

Key Limitations of Transdermal Delivery Systems (Patches):

- ◆ Transdermal penetration is most effective when particle size of the active ingredient is below 20 nanometers. Particle sizes of active ingredient above 20 nm is largely ineffective/wasteful (they are physically too large to ever pass through the dermis).
- ◆ Surface area contact of patch to skin. Most Patches are peel and stick. The skin, when viewed in cross section, is full of wrinkles, follicles, nooks and crannies, etc, and thus the topical patch is not in contact with the skin over most of the patch surface area.
- ◆ Limited Time Release – typically 4-6 hours.



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Biolinear GelPatch Technology is the most advanced Cannabinoid Transdermal Patch available on the market today. Key features include:

- ◆ Easily mix CBD isolate into Biolinear's GelPatch Vehicle, which can be shipped across any border (GRAS certified and FDA approved ingredients).
- ◆ Mixing into the GelPatch Vehicle converts CBD isolate into Molecular CBD – it reduces the size of the CBD particles down to the smallest possible unit, the individual CBD molecule. The size of the CBD particles in the GelPatch are less than 1 nanometer in diameter!
- ◆ Pump the GelPatch onto the skin and spread with the finger. The gel dries naturally within a couple of minutes and forms a clear, extremely thin 'second skin'. This 'second skin' is similar to a liquid bandage and moves and flexes easily with the skin. It is clear and completely discreet.
- ◆ Time Release – the GelPatch delivers Molecular CBD directly into the blood stream over the course of 24 HOURS!
- ◆ Washes away easily with soap and warm water.

