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### **Practical considerations in product commercialization using natural cannabinoids**

Transdermal delivery system is defined as self-contained, discrete dosage forms which, when applied to intact skin deliver the drugs through the skin at a controlled rate into systemic circulation. The stratum corneum, the first strata of skin, comprises approximately 10-25 layers of dead, flattened, occlusive skin cells comprised of keratin with protein deposits, e.g. corneocytes that pose the rate-limiting step in percutaneous absorption for transdermal drugs. The product composition of Cannabis evolved medicines are medicated adhesive, solid state matrix, backing film, adhesive, drug or API, functional excipients, release liner. However, the process of manufacturing of Cannabis evolved medicines are standardization through compounding and standard procedures.

### **Biography**

Nial C De Mena is the Founder of several successful cannabis related enterprises Manna Molecular Science, a biotechnology company formed in Massachusetts that focuses on new delivery technologies in Cannabis therapeutics using novel automated 3D printers.

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