Bio MEMS, Bio Sensors De-B02, Dw304

BJ. KIM LAB.

Painless Healthcare Beyond Skin Barrier



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Microneedles—Enhanced pathway beyond skin

Recently, in the transdermal drug delivery methods, the microneedle-mediated drug delivery system (DDS) has been developed to replace the hypodermic injection-mediated DDS, to provide painless self-administration of biological drug with patient friendly manner. Dissoluble microneedles are attracting many attentions as it has several advantages such as no needle-related risks. We have developed new fabrication methods for biodegradable microneedles array patches (MAPs), which are different with the conventional fabrication ones, such as stepwise casting method. Here, new transdermal drug delivery system by using dissoluble micro needle patch will be introduced. We also develop several aspects of bio-sensors components to accomplish portable Point-of-Care diagnostic devices, which are disposal, user-friendly, low-cost, and highly sensitive.

What is MAP (Microneedle Array Patch)

