

What makes Dermoelectroporation(R) technology different?

-Capability of Transdermal Delivery of any type of ionic solution of active substances

-Capability of Transdermal Delivery of ionic solution of macromolecules.

-No degradation by electrolisis of biologically active molecules.

-Boosting of transdermal delivery rate by microdermabrasion.

-No variation of the of the skin PH.

-Reproducibility of dose delivered.

-Vibration feature for pulses perception decreasing

-Non invasive action. No Trauma from Injections.

Dermoelectroporation® is available here:

A New Science in Skin Care®

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New Ionic drug solutions Transdermal Delivery System



ULTRAPEEL®
Transderm
IONTO SYSTEM

**Dermoelectroporation®
Technology**



**Product & Technology information
Leaflet**

REVOLUTIONIZING IONTOPHORESIS

Ultrapeel® Transderm® Ionto System is the newest ionic drug solutions transdermal delivery system to be used for medical purposes. Ultrapeel® Transderm® Ionto System uses a brand new Proprietary Technology called **Dermoelectroporation®** from Mattioli Engineering of Florence - Italy . By providing a timely controlled pulse, transdermal delivery of drugs occurs as in classical Iontophoresis, despite the fact that the average current is zero.



So, **no electrolysis** of ionic drug solutions happens and **no variation** in the ionic drug solution **pH** occurs. Due to this , **Transderm® Ionto** is able to deliver both positive and negative ions of the ionic drug solution at the same time and faster than others.



New Ionic Drug Solution Transdermal Delivery System

When directly connected to Ultrapeel Crystal T microdermabrasion unit, **Transderm® Ionto** will allow user to get to higher transdermal delivery flux than normal Iontophoresis devices does.

Macromolecules previously not transdermally deliverable by classical Iontophoresis are now successfully deliverable due to the new

Dermoelectroporation® Technology.

A further great advantage with this system is that the microdermabrasion enables a standardization of the skin characteristics, so the drug delivery rate is reproducible.



The Perfect team goes for success!

Why Microdermabrasion first?

Ultrapeel® Microdermabrasion System is well known in the medical community as the first microdermabrasion system that got FDA in 1996. As reliable device as it is, Ultrapeel® Microdermabrasion System performs a uniform controlled exfoliation of the stratum corneum. This condition allow ionic drug solution to be absorbed about twice than a classic topic substance application on skin and ensures reproducibility due to standardization of the thickness and permeability of the stratum corneum.

Why Dermoelectroporation® is so effective?

Dermoelectroporation® Technology does not have temporary pH change and also either negative and positive ions are transdermally delivered without substance degradation. Moreover, also macromolecules are transdermally delivered for the first time from an Iontophoresis device.

Laboratory studies demonstrated that ionic drug solutions of macromolecules such as Collagen and Eparine are transdermally delivered. Vibration feature also decrease the patient's perception of the electrical pulses and performs a relaxing massage to the patient during the treatment.

