Preparation
The Patch-non-Patch™ is prepared using a lamination technique. A solution (dispersion) of all ingredients in water is layered on the protective layer and then oven-dried. The film can be then punched in the desired shape and size.

Case Studies
Caffeine, Diclofenac, Estradiol, Ibuprofen lysine, Lidocaine, Nicotine, Bupropion, Fentanyl, Progesterone, Nitroglycerine, Thiocholchicoside, Sumatriptan, Oxybutynin, Thyroxine.

Publications

Licensing
The Patch-non-Patch™ is protected by two patent applications (Film for active ingredients dermal and transdermal administration - WO200230402 - and New device for delivery of active principles - WO2006008320). The technology is available for licensing.

Further information
For further information please visit the website:
http://patchnonpatch.awardspace.com/
For scientific information:
Prof. Patrizia Santi
Department of Pharmacy
University of Parma
Parma (Italy)
Phone: +39 0521 905069
Fax: +39 0521 905006
Email: patrizia.santi@unipr.it
For licensing information:
Dr. Patrizia Mattaboni
Lisapharma S.p.A.
Via Licinio 11
Erba (Como), Italy
Phone: +39 031 641257
Fax: +39 031 644182
Email: regulatory@lisapharma.it

Patch-non-Patch™
Innovative film for the dermal/transdermal delivery of active substances

Patch-non-Patch™ is the trademark (#000920717) for cosmetic/pharmaceutical films
Description
Patch-non-Patch™ is a single layer patch or film, which acts as backing, drug reservoir and adhesive at the same time. The product consists in a sealed pouch, containing the non-self adhesive film layered on a sheet of liner and protected with a second liner.

Features
• Not adhesive in the dry state;
• Bioadhesive only in the presence of water;
• Stay adherent to the skin for at least 24 h;
• Easily removed with and without water;
• Available in different sizes and shapes;
• Thin and transparent;
• Water permeable;
• Flexible;
• Electrically conductive;
• Releases a high percentage of the active included;
• The preparation does not require organic solvent.

2nd Generation Patch-non-Patch™: occlusive, higher performance, film on a backing. Occlusion is a common method employed to prevent water loss from the stratum corneum and the subsequent increase in hydration is known to enhance the transdermal flux of many drugs.

Skin application
The application is made as follows: after the removal of the first protective liner, the film is deposited on moist skin. After the application of a slight pressure for a few seconds the second protective layer is peeled off.

The advantages of the Patch-non-Patch™ technology
• Not adhesive in the dry state and can be easily handled;
• Water permeable (avoids the problems of skin maceration);
• Water soluble, and can be removed easily with water;
• Flexible, adaptable to rounded surfaces (such as the tights), very thin, transparent and almost invisible;
• Can be used as reservoir for iontophoretic application.