

IONTOPHORETIC PATCH

fat & cellulite reductor



PRODUCT DESCRIPTION

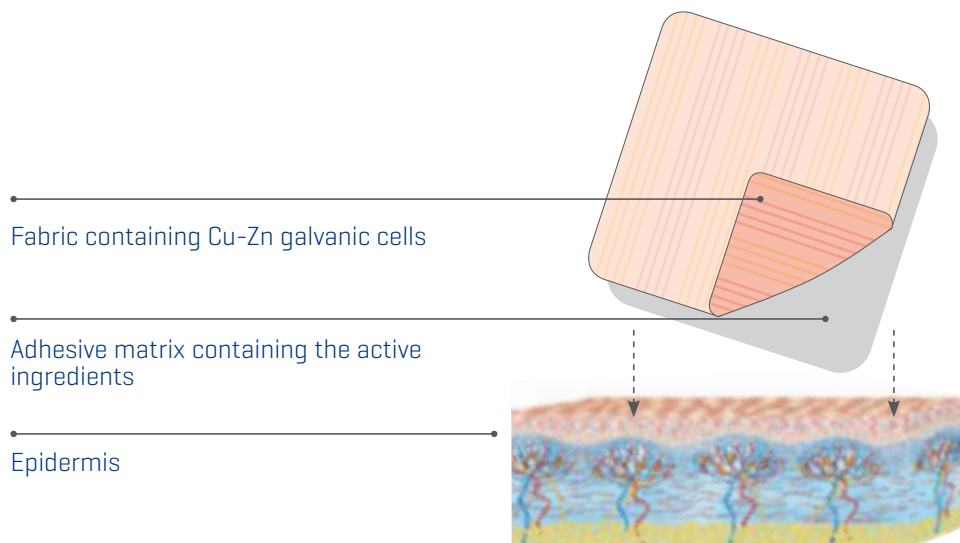
Iontophoretic Patch Fat Reducer is an electrodynamic patch with alternating voltaic cells that uses the principle of iontophoresis to enhance significantly the absorption of active molecules allowing to achieve a greater anti-cellulite, re-modelling effect that is able to improve skin appearance and stylise the figure.

Iontophoretic Patch Fat Reducer represents the evolution of conventional patches and is much more effective thanks to its double action:

1. The electromagnetic field created by the patch generates an ion channel which allows a more efficient absorption of the active ingredients migrating through the skin.
2. The electro-ionic action creates a "cell massage" that enhances oxygen exchange between the cells, revitalising the connective tissue. Therefore, **Iontophoretic Patch Fat Reducer** offers stimuli that increase collagen production, thus enhancing skin elasticity and health.

As shown in the drawing below, the patch comprises two layers:

- An external tissue layer with galvanic cells of copper and zinc.
- An adhesive matrix containing the active ingredients and the polarising substances.



INDICATIONS

Iontophoretic Patch Fat Reducer is recommended as a supplement in weight loss diets to reach goals faster and more effectively. Thanks to the iontophoresis technology and together with its selected active ingredients, the following is achieved:

- Reducing fat from localised areas and, therefore, volume.
- Remove fluid accumulation.
- Improve skin appearance, reducing markedly orange peel.

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□ ACTIVE INGREDIENTS

Iontophoretic Patch Fat Reducer has been designed to achieve a full action in the treatment of body weight reduction and treatment of cellulite. The ingredients include:

ARGININE. Activates the proteasome system responsible for degradation of unnecessary or damaged proteins and stimulates the production of thioredoxin, protein that acts as antioxidants. This is an effective way to combat some irreversible skin physiological processes responsible for aging and sagging. Reduces the appearance of stretch marks and gives the skin radiance and smoothness.

PLANCTON. This rich component lipids and omega 3, stimulates skin cells, strengthens cellular cohesion and renews the protective skin barrier. Among the qualities of this marine component, is that of preventing and combating cellulite deep, caused by genetic, hormonal or nutritional factors. It also acts against the orange skin because it attacks the hardened collagen fibers stimulating new collagen synthesis to soften the fibers and give a new look and healthy skin.

FUCUS VESICULOSUS. An alga with recognised metabolism activator activity. Its high mineral content and the presence of iodine give it its activator properties.

CAFFEINE. Widely used as anti-cellulite active thanks to its draining effect able to remove liquid accumulations.

CLOVE. With anti-inflammatory and analgesic properties, it helps in cases of deep cellulite to mitigate the pain in the area and improve the appearance of the skin.

CEYLAN CINNAMON. This aromatic plant is used in cosmetics for their properties stimulants, antiinflammatory and antioxidant. Activates the metabolism of sugars, inducing the cells to consume more sugar and energy. Cinnamon is used as a stimulant circulation because the increased blood flow in the area of action, provides an additional contribution oxygen will be used to burning fat.

GINGER. It stimulates the circulatory system, so it is very useful in cases of poor peripheral circulation and cramps associated with deep cellulite.

DROSERA. Is a plant with high purifying powers that enhances the properties of the other ingredients contained in the formula while helping to eliminate toxins.

□ MECHANISM OF ACTION

Iontophoretic Patch Fat Reducer is based on **IONTOPHORESIS** to take the active ingredients more effectively to the site of action while obtaining an improvement in the quality of connective tissue and skin. **IONTOFORESIS** consists of introducing active substance ions through the skin induced by the lowintensitycurrent generated by contact of the patch with sweat.

The adhesive matrix contains the active ingredients and polarising substances, so within a few minutes of application, thanks to the occluding effect of the patch, evaporation of sweating fluids occurs and wet the adhesive and the tissue, thus creating micro-currents of about 300 microamperes and a micro-magnetic

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field of about 4-10 nanoTeslas. All ionic substances present in **Iontophoretic Patch Fat Reducer** have electrical charge and will tend to displace to the contrary pole, where they will be absorbed more easily through the skin. Therefore, **IONTOPHORESIS** improves absorption of the substances over the conventional topical use of reducing and anti-cellulite treatments.

The action of these micro-currents and the micro-magnetic fields enhance ion exchange and oxygen use will provide the skin with a healthier appearance and return it to optimum conditions. Because of mechanical, physical or chemical aggressions, aging of the dermis and collagen loss occur, leading to flaccidity, so **Iontophoretic Patch Fat Reducer** allows to fight these signs of wearing.

INSTRUCTIONS

Apply an **Iontophoretic Patch Fat Reducer** on the intended area, allow to act all day (24h) and replace with a new one the next morning. A two-month treatment, with rests of 15 days between each treatment, is recommended.

CLINICAL RESULTS

The measurement of micro-currents and magnetic field generated in vitro is evidenced by the study conducted by **Abich Clinical Study**, certified company, which reveals the following results:

	RESISTENCE [kΩ]	POTENTIAL [mV]	INTENSITY [μA]
Negative control	100,40 ± 12,05	13,52 ± 3,24	0,01 ± 0,03
Zn/Cu + sweat pH 4.5	86,54 ± 7,48	462,53 ± 17,18	4,58 ± 0,16
Zn/Cu + sweat pH 4.5	104,75 ± 9,27	449,65 ± 22,11	4,43 ± 0,09
Zn/Cu + sweat pH 5.5	105,72 ± 12,71	443,62 ± 20,12	4,37 ± 0,13

* Values represent the mean ± standard deviation

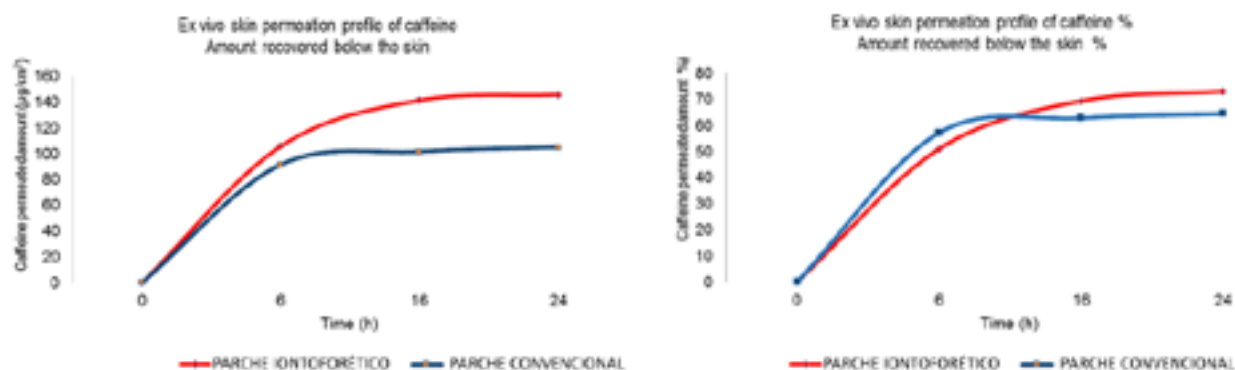
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In relation with the absorption of active ingredients, was conducted by **Abich Clinical Study** an in vitro evaluation of percutaneous absorption of caffeine contained in a iontophoretic patch and conventional dermal patch on reconstituted epidermis. The results, show in the graphics below, reveal iontophoretic patch has a greater capacity of permeation in comparison with a conventional patch.



Furthermore, recent studies have shown the effectiveness of iontophoretic delivery of a molecule of diclofenac sodium, demonstrating a drug absorption capacity in the injured area that is up to 100 times greater than delivery by oral absorption.

EFFICACY TEST

The efficacy of the patches in helping to reduce cellulitis and local adiposities imperfections visibility has been evaluated by the laboratory Bio Basic Europe. Here are the results obtained by the intervention group women that used the Iontophoretic Patch Fat Reducer. In the control group [women that did not use the product] no improvements on the evaluated parameters were observed:

	Iontophoretic Patch Fat Reducer
	At 56 days
Average extracellular water reduction	-1,04 L
Average thigh circumference reduction	-1,88 cm
Subjects with improvements in orange peel visibility	80%
Subjects with improvements in cellulitis imperfections visibility	80%
Subjects with improvements in skin microcirculation	50%
Subjects with improvements in their silhouette	60%

Conclusions: After 8 weeks of treatment, Iontophoretic Patch Fat Reducer has proved to help reducing thigh circumference in 1,88 cm. Furthermore, orange peel visibility and cellulitis improved in 80% of volunteers that used the patch.

CATEGORY

Cosmetic.

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