

IONTOPHORETIC PATCH

eye contour



PRODUCT DESCRIPTION

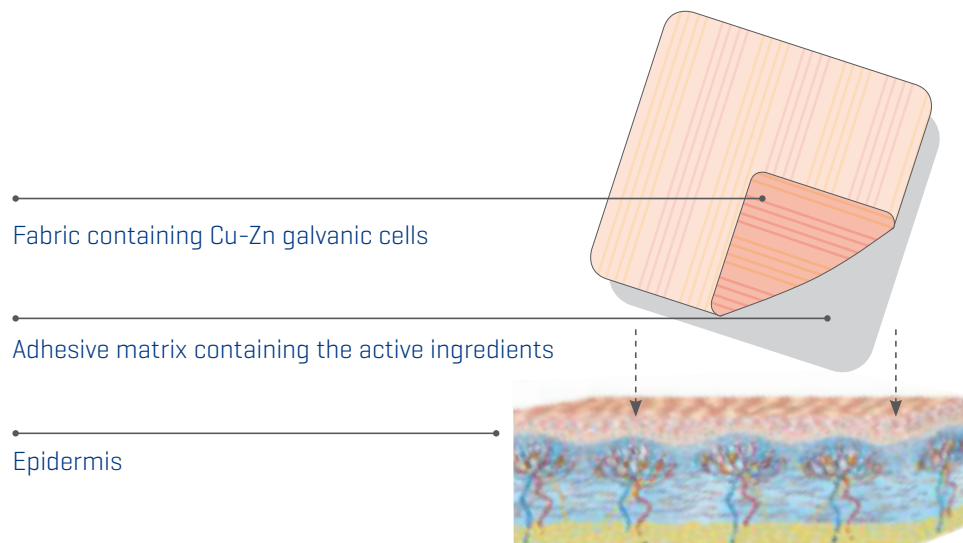
Iontophoretic Patch Eye contour is an electrodynamic patch with alternating voltaic cells that uses the principle of iontophoresis to enhance significantly the absorption of active molecules allowing to achieve a greater anti-age effect in the eye contour area.

Iontophoretic Patch Eye contour represents the evolution of conventional patches, and is much more effective due 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 Eye contour** 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

Eye contour skin is one of the most sensitive areas of the body and therefore one of the first to suffer wear and show the signs of aging. Therefore, **Iontophoretic Patch Eye contour** has been designed to fight the signs of time:

- Reduces inflammation in the area to prevent formation of eye bags and rings.
- Redensifies the skin to reduce wrinkles and expression lines.
- Moisturises.
- Promotes the formation of collagen that will provide a tightening effect and will return elasticity.
- Repairs the skin after external aggressions.

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ACTIVE SUBSTANCES

Formulated with **KIGELIA AFRICANA**, substance extracted from an African tree. Native women traditionally have used it for their rejuvenating and firming effect of face and bust. Moreover kigelia is known by its antibacterial and anti-inflammatory properties, which provides a healthy skin without inflammation or blotch; an antioxidant power that blocks free radicals.

Thanks to its properties is indicated for:

- Prevention of wrinkles, thanks to the firming effect.
- Anti-edema of eye bags, for its anti-inflammatory features.
- Rejuvenate the skin, for its regenerative and antioxidant properties.

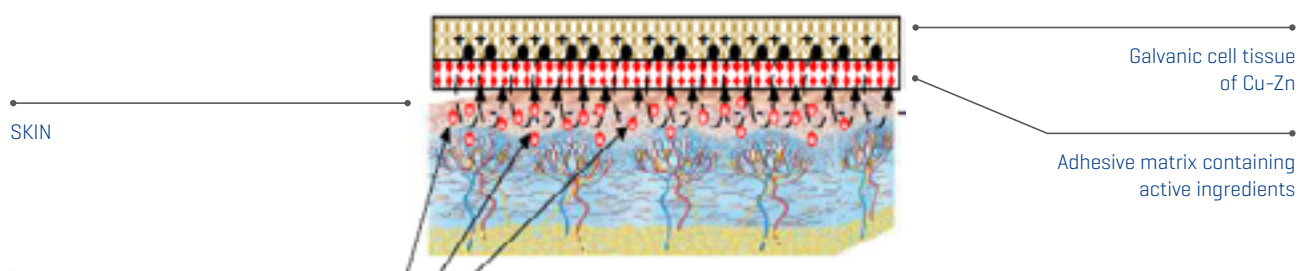
MECHANISM OF ACTION

Iontophoretic Patch Eye contour 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.

IONTOPHORESIS consists of introducing active substance ions through the skin, induced by the low intensity current 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, that wet the adhesive and the tissue, thus creating micro-currents of about 300 microamperes and a micromagnetic field of about 4-10 nanoTeslas. All ionic substances present in **Iontophoretic Patch Eye contour** have electrical charge and will tend to be displaced to the opposite sign pole, where they will be absorbed more easily through the skin. Therefore, **IONTOPHORESIS** improves the absorption of substances vs. the conventional topical use of treatments for eye contour with anti-aging effect.

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



The micro-current and the micro-magnetic field enhance passage of the active ingredients from the patch matrix to the skin

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INSTRUCTIONS

Apply an iontophoretic patch on the eye contour, allow to act through the night [8-12 h] and remove the next morning.

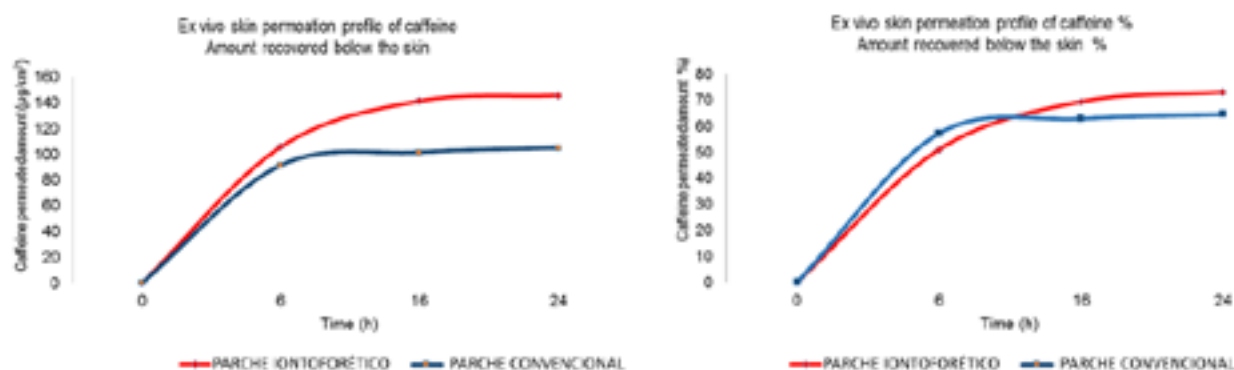
CLINICAL RESULTS

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

*Los valores representan la media ± desviación estándar

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.

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CATEGORY

Cosmetic.

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