

PRESS RELEASE

THE INNOVATIVE ART OF SKIN HEALTH

Our refreshingly innovative approach to enhancing skin health allows us to create new products that support multi-functional benefits while delivering rapid results.

MD
TXN serum

THE INNOVATIVE ART OF SKIN HEALTH

pHformula is an international dermatological skincare company that uses pharma-grade ingredients - the highest and purest quality raw materials - in its product formulations and in its approach to chemical skin resurfacing.

We practice the art of controlled chemical skin resurfacing at a pharma cosmeceutical level. Our non-invasive, customised skin resurfacing treatments are the result of more than three decades' of scientific, medical and skin health experience. Targeted at the specific needs of our four identified skin disorders ranging from ageing, hyperpigmentation, skin redness to acne-prone skin, key ingredients are applied to the skin combined with acids and our unique delivery vehicle complex, PH-DVC™. All the elements together, deliver protons to the different layers of the skin in a controlled manner. This release of protons result in accelerated cell turnover and optimum skin regeneration with no downtime.

ABOUT TXN serum

An innovative Tranexamic acid serum with concentrated depigmenting properties. Formulated with a unique combination of Niacinamide, 4-Butylresorcinol, and key amino acids. It acts in several pigment-formation stages and contributes to protect the skin from oxidative stress, providing visible reduction of dark spots. Unveils skin luminosity, with a brightening effect and improved skin moisture. Quick-absorbing with a dewy finish.



TRANEXAMIC ACID

Is a synthetic derivative of the amino acid, lysine. Tranexamic acid inhibits melanin synthesis in melanocytes by interfering with the interaction of keratinocytes and melanocytes through inhibition of the UV-induced plasminogen / plasmin system, thereby decreasing free arachidonic acid and the production of prostaglandins, which are known stimulators of tyrosinase activity. It has been described that tranexamic acid is suitable for all skin types to remove pigmentation, whiten / lighten the skin, and reduce spots such as: pigmentation after sun exposure, dark spots, pigmentation in sensitive skin, pigmentation in acne and inflammation, and PIH: postoperative care after laser and pulsed light treatment. Tranexamic acid mainly targets the activation phase of melanogenesis.

NIACINAMIDE

Is the amide form of vitamin B3 (niacin), an essential water-soluble vitamin that is not stored in the body. It slows down melanosome transfer to the keratinocytes to contribute to the reduction in hyperpigmentation. Niacinamide has a skin soothing action, and it contributes to the improvement of skin barrier function and reduction in trans epidermal water loss. It has potent antioxidant properties and contributes to the stimulation of collagen synthesis to help reduce the appearance of fine lines and wrinkles. It also helps to reduce skin sallowness (yellowing), redness and blotchiness. Niacinamide mainly targets the transfer phase of melanogenesis.

PENTYLENE GLYCOL

Is a next generation active ingredient derived from Bagasse, a natural by-product of sugar cane that is ethically and responsibly sourced and processed with a patented production process. The next generation Pentylene Glycol is 100% bio-based carbon and COSMOS approved. It promotes skin moisture and boost the performance of other key ingredients while improving the sensorial profile of the formula and helping to protect the product.

BETAINE SALICYLATE

Combines the famous exfoliant and anti-acne active ingredient, Salicylic acid, with the gentle moisturiser, Betaine. It is a natural-origin active ingredient and COSMOS certified. Betaine salicylate enhances skin quality as it helps to improve skin texture, has natural moisturising properties, and contributes to the improvement of blemishes and enlarged pores. It also has a smoothing action.

BUTYLRESORCINOL

Is a highly effective resorcinol derivative that inhibits both tyrosinase and tyrosinase related protein-1 (TYRP-1). It is a strong human tyrosinase enzyme inhibitor and due to its structure, have excellent bioavailability. 4-Butylresorcinol can also stimulate the synthesis of Glutathione reductase. It functions as a skin lightener thereby promoting a more even-toned complexion and has antioxidant properties. 4-Butylresorcinol mainly targets the synthesis phase of melanogenesis.

MANDELIC ACID

Water soluble alpha hydroxy acid (AHA). Due to its aromatic ring structure, Mandelic acid consists of some lipophilic properties as well. It penetrates gradually and uniformly into the skin, due to Mandelic acid being one of the highest molecular weight AHAs. Mandelic acid's keratolytic properties promotes cell turnover and renewal, helps to refine uneven skin texture, contributes to the stimulation of collagen and GAGs, and contributes to a more even-toned complexion. It also helps to reduce hyperpigmentation dyschromia's and contributes to the reduction in post inflammatory hyperpigmentation (PIH). Mandelic acid not only has a soothing action but is also a gentle acid suitable for sensitive skin. Mandelic acid has antimicrobial properties. Mandelic acid mainly targets the accumulation phase of melanin in the melanogenesis.

UNDECYLENOYL PHENYLALANINE

Is a compound composed of phenylalanine, a key essential amino acid involved in melanin synthesis, with plant-derived undecylenic acid. This forms a lipo-amino-acid or vectorised amino acid that acts as an alpha-melanocyte-stimulating-hormone-receptor-agonist (α -MSH), that actively promotes the inhibition of key steps of the α -MSH-induced melanogenic cascade. This contributes to the reduction of hyperpigmentation spots. Undecylenoyl Phenylalanine mainly targets the synthesis phase of melanogenesis.

LACTIC ACID

Is a water-soluble AHA (alpha hydroxy acid) and also a component of the natural moisturising factor (NMF). It contributes to the reduction of hyperpigmentation in two ways: by inhibiting the action of tyrosinase, as it is a tyrosinase inhibitor and by inhibiting melanin dispersion due to its keratolytic action that also helps to increase cell turnover rate. Lactic acid has moisturising properties as it promotes the synthesis of ceramides by keratinocytes that in turn will reduce TEWL and improve skin barrier function. It indirectly helps to stimulate collagen and elastin synthesis. Lactic acid mainly targets the synthesis and accumulation phases of melanogenesis.

ARGININE

Is an alpha amino acid that is used in the biosynthesis of proteins. L-Arginine is a powerful antioxidant and an excellent moisturising agent that assists the skin with the production of natural moisturising factors (NMFs). It has humectant properties that attract and bind water in the skin. Therefore, Arginine will contribute to the reduction of TEWL and support skin barrier function. It supports collagen synthesis and has wound healing properties. Arginine mainly targets the activation phase of melanogenesis acting as an antioxidant.

BIOSACCHARIDE GUM-1

Is an anionic polysaccharide with a high molecular weight obtained by bacterial fermentation from non-GMO vegetable substrates. It helps to stimulate epidermal renewal by stimulating the synthesis of sirtuin-1. This inadvertently will help to regenerate skin barrier function through the expression of involucrin and loricrin. In turn, TEWL will be reduced. In synergy with Pentylene Glycol, Biosaccharide Gum-1 has a moisturising action. It has soothing properties, that in synergy with Niacinamide helps to provide relief for skin irritation. It gives a soft touch to the formulation.

SWEET ALMOND OIL

Prunus amygdalus Stokes var. *dulcis* DC. belongs to the *Rosacea* family. Sweet almond oil is obtained by cold pressing of the fruits. The lipid fraction of sweet almond is rich in unsaturated fatty acids (oleic and linoleic). The unsaponifiable fraction is mainly composed of squalane, tocopherol, and phytosterols that helps to improve skin tonicity and flexibility. Sweet almond oil helps to repair skin barrier function and contributes to the reduction of TEWL. Due to the vitamin E, it also has moisturising and antioxidant properties.

SHEA BUTTER

Butyrospermum Parkii butter is composed of mainly oleic and stearic acids and has rich emollient benefits that helps to maintain moisture in the skin by reducing trans epidermal water loss.

PH-DVC™ (DELIVERY VEHICLE COMPLEX)

Is an advanced delivery complex used in the pHformula formulations to enhance the penetration of active ingredients. It is composed of a delivery system, a soothing ingredient and a cell activator complex named Respiderm. Respiderm assists to increase cellular oxygenation as well as wound healing promoting collagen and elastin synthesis. Cell activity is enhanced while having a soothing effect. Respiderm can potentiate the activity of other active ingredients.

TXN serum HIGHLIGHTS

- Powerful skin lightening action acting on several stages of melanogenesis that provides visible reduction of dark spots and age spots.
- Contributes to the reduction of UV-induced hyperpigmentation such as melasma and promotes the reduction of post inflammatory hyperpigmentation (PIH).
- Significant improvement in skin tone and skin homogeneity (even tone).
- Helps to dissolve melanin that is already present which reduces pigmentation intensity.
- Promotes skin brightness and radiance to achieve a more youthful-looking skin.
- Contributes to reduce skin sallowness.
- Skin soothing properties.
- Helps to protect the skin against oxidative stress and reduce the appearance of fine lines and wrinkles.
- Promotes skin firmness.
- Helps to reinforce skin barrier function.
- Promotes skin hydration. Helps to plump skin.
- Contributes to the improvement of skin quality and texture and provides skin smoothing properties.
- Quick absorption with a dewy finish.

DIRECTIONS FOR USE

- **Use in the PM only.**
- Use during treatment period as well as during recovery time after treatments to enhance and maintain overall skin resurfacing results.
- Can be alternated with MD recovery prescriptions.
- Apply 1-2 pumps on a clean, dry skin in the evening.
- Complete evening routine with the recommended pHformula moisturiser.



ABOUT pHformula

Represented in more than 40 countries worldwide and based in Barcelona, pHformula is a dermatological skincare company that prides itself in the art of skin health. Using pharma-grade ingredients consisting of the highest and purest quality raw materials in its product formulations, pHformula is innovative in its controlled chemical skin resurfacing approach. Its formulations feature a unique and exclusive delivery vehicle complex - PH-DVC™ - to provide quick penetration, improved bio-availability of the ingredients thereby minimising the possible side effects associated with traditional skin peeling. pHformula not only develops controlled chemical skin resurfacing products of the highest level, but also offers the ART of skin resurfacing - a complete treatment system for the professional (skin therapists, aesthetic nurses and doctors) to achieve optimum results in our four identified skin disorders.



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BENEFITS

- Reduction in hyperpigmented spots.
- Refined skin tone.
- Skin brightness and radiance.
- Diminished skin sallowness.
- Minimised fine lines and wrinkles.
- Boosts skin firmness.
- Improved skin quality and texture.
- Plump and hydrated skin.

pHformula
DERMATOLOGICAL SKIN RESURFACING

MD