

FERMENCOL + nanotropic enhancer of transdermal delivery

In July 2014 the Fermencol® gel with a new improved formula was released. The new product incorporates nanotropic enhancer of transdermal delivery (Patent RF No. 2462265).

The nanotropic enhancer of transdermal delivery increases permeability of a scar tissue and facilitates deeper penetration of collagenolytic proteases. Hydrolysis of the excessive collagen in the scar occurs not on the surface but in the thickness of the scar, accelerating the scar tissue reduction and enhancing the anti-scar effect.

Fermencol® is mainly intended for revision of scars resulting from excessive generation of collagenous fibers (keloid and hypertrophic scars) by hydrolyzing the excessive collagen.

When the nanotropic enhancer is not applied, the excessive collagen is hydrolyzed on the scar surface layer-by-layer as the collagenolytic complex molecules cannot penetrate the scar due to the skin barrier properties.

The nanotropic enhancer facilitates penetration of the collagenolytic proteases into the scar as a result of:

1) hydration and loosening of the scar tissue and thus its increased permeability;

2) increased compactness of the collagenolytic proteases' molecules with the presence of nanotropic enhancer and thus easier penetration to the scar. This is extremely important when the scar tissue is located under the stratum corneum (in case of rash, furuncles? after laser resurfacing).

When the nanotropic enhancer is applied, the scar excessive collagen is hydrolyzed not on the surface but in the thickness of the scar; thus, the scar reduction is repeatedly accelerated.