



PEPTAMIDE™ 6 – HEXAPEPTIDE COMPLEX

In our passionate search for the perfect ingredient, we found that the well-documented research on yeast fermentation, in particular, Baker's yeast (*Saccharomyces cerevisiae*), have demonstrated wound healing properties. These physiological effects, which have been variously attributed to increased cellular oxygen consumption, improved collagen synthesis and increased blood vessel development, appear to be principally related to unique proteins and low molecular weight peptides that are enzymically formed in the growing yeast.



Within the yeast extracts, peptide fragments had been identified to have the ability to control the genes responsible for collagen and elastin production. This peptide, called Peptamide™ 6, has a unique sequence of amino acids that appears in a number of unique proteins and genes.

Peptamide™ 6 has 5 key functional areas: trans-membrane proteins, growth factors, matrix proteins, skin lipid development, and cell shock/cell stress proteins. Trans-membrane proteins are special cellular membrane shuttling sites that move important internal and external cellular materials through the cell membranes. Growth factors are key enzymes responsible for differentiation and growth of tissue, in particular fibroblasts, that improves collagen synthesis. Matrix proteins (or extracellular matrix proteins) are important components of the extracellular matrix which gives the skin substance and elasticity. Skin lipids make up the lipid bi-layer of the skin and the cell shock proteins are chaperone proteins that are excreted by cells to protect important cellular proteins from being denatured due to stress.

Peptamide™ 6 controls the various growth factors, matrix proteins and cell shock/cell stress genes that are directly related to skin firming, skin renewal and water retention, reducing the appearance of fine lines and brightening the complexion. In addition, stress proteins can play a role in cellular apoptosis, the necessary cell death sequence, to make way for new cells.

Peptamide™ 6 is a mixture of natural ingredients predominated by a unique firming hexapeptide, proved to be ideal for anti-aging products and eye treatments, forming an essential ingredient within eyeSlices® to help you restore your skin to its natural beauty.

