

TABLETS FOR THE ENZYMATIC CLEANING OF ALL TYPE OF CONTACT LENSES

The enzyme tablet contains as active agent Subtilisin. This enzyme digests the protein, fat and mucin deposits adhered to the surface of the lens, mainly coming from corneal and tear metabolism.

Subtilisin is an enzyme, having an active core in its molecule capable of producing a specific chemical reaction at a high speed. The mechanism consists in hydrolysis reactions where a lot of protein peptidic linkages are broken (the subtilisin breaks the peptide bonds between aminoacids). This way, deposits of proteins become small fragments which tend to disperse or solubilize in the solution.

These tablets are soluble and simple to use with multi-purpose solutions and peroxide systems.

- With multi-purpose solutions the enzyme tablet is added to the solution before introducing the lenses.
- With 3% hydrogen peroxide, the enzyme tablet is added at the same time as the neutralizing tablet. The lenses are then introduced.
- The use of the enzyme tablets with hydrogen peroxide solutions and multi-purpose solutions (containing polyhexamethylenebiguanide) does not inhibit or reduce the disinfecting capacity of these solutions.
- Regarding the cleaning capacity of the tablets, it is slightly more effective in hydrogen peroxide than in multi-purpose or saline solutions.
- The tablets may also be used with saline solution.
- They are compatible with all type of soft, disposable and gas permeable contact lenses.

Figure 1. Action mechanism of the enzyme tablets

