

PRESERVATIVE FREE LUBRICATING OPHTHALMIC SOLUTION WITH A PROTECTIVE ACTION THAT SUPPORTS CORNEAL **HEALING**

OSD TECHNOLOGY

Ophthalmic Squeeze Dispenser (7)

The OSD (Ophthalmic Squeeze Dispenser) technology Manufactured by APTAR

allows the innovative delivery of a sterile preservative-free ophthalmic solution.

- Multidose Preservative-Free System
- Sterility is guaranteed by the innovative drop dispenser
- Patient friendly device
- Convenient and intuitive to use

VERBALUX®

EYE DROPS VERBASCOSIDE CROSS-LINKED HA 0,3%

TECHNICAL DESCRIPTION COMPOSITION:

Cross-linked Sodium Hyaluronate 0,3%, P-Plus™, Verbascoside dry extract. Potassium Chloride. Calcium Chloride, Magnesium Chloride, Sodium Chloride, Potassium Hydroxide, Boric Acid and Sodium Tetraborate.

GENERAL DESCRIPTION:

VERBALUX®PF is a refreshing and lubricating ophthalmic solution containing two natural polymers: Cross-linked Sodium Hyaluronate and P-Plus™

It also contains Verbascoside a strong antioxidant able to protect ocular tissues and fluids from naturally occurring oxidation of the cornea. The combination of a strong antioxidant such as Verbascoside, P-PLUS™ and cross-linked Sodium Hyaluronate supports the physiological healing process in the cornea.

The protective action of VERBALUX®PF has been tested in vitro. The test shows the substantial reduction of oxidative stress induced by pollution.

INDICATIONS:

Anti-pollution barrier effect:

• Provides a relief of burning and irritation of the eve due to exposure to pollution factors.

Lubricant effect:

- When applied in the eye VERBALUX®PF mixes with tears and forms a viscous and transparent film that helps to reduce the friction caused by blinking and protects the surface of the cornea. It reduces burning sensation, sore and discomfort of watery eyes.
- Supports the physiological healing process of corneal wounds and abrasions, in particular in case of traumaticevents or surgical procedures.

The use of **VERBALUX®PF** is particularly indicated for patients at risk of infection. **VERBALUX®PF** is compatible with all types of contact





NOVAX® PHARMA

Le Coronado 20, Avenue de Fontvieille MC 98000 - Monaco Tél.: +377 97983211 www.novaxpharma.com





Broch 4P A4 VERBALUX PF EN Ref BR VX. REV 00, 21-02-2020



The association of Verbascoside and Cross-Linked Hyaluronic Acid with P-Plus™ participates in the protection of ocular tissues and fluids from oxidation and supports the physiological healing process in the cornea

VERBASCOSIDE (1)

- Phenolic compound with strong antioxidant properties
- Prevents lipid peroxidation thanks to its high scavenging capacity of hydroxyl radicals
- Enhances natural antioxidant defences
- Supports corneal healing



Antioxidant activity prevents lipid peroxidation and protects the tear film

CROSS-LINKED HYALURONIC ACID

- Hydrophilic physiological polymer
- More efficient than the linear molecule
- More resistant to heat
- Keeps more viscosity over time
- More stable
- Improved retention time on the corneal surface



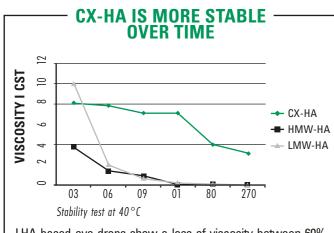
Lubricant properties provide fast and long-lasting relief of dry eye symptoms (4)



P-PLUSTM

a natural polymer with lubricant properties that enhances the effectiveness of CX-HA

ADVANTAGES OF CROSS-LINKED HYALURONIC ACID (3)



LHA-based eye drops show a loss of viscosity between 60% - 80% after the first 30 days at 40 °C. CX-HA-based eye drops 0,15% show a loss of viscosity between 10% and 12%, but only after 90 days at 40 °C (accelerated stability test)

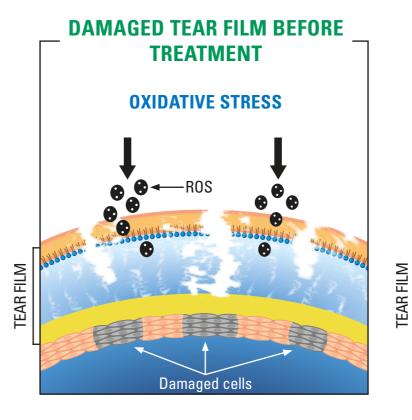
CX-HA IS MORE RESISTANT TO PHYSICAL DEGRADATION 9 VISCOSITY I CST ■ HMW-HA ■ LMW-HA **BEFORE** AFTER Test of heat moist sterilization: 121°C; 2,1 Bars, 15 min CX-HA-based eye drops show a greater stability after pro-

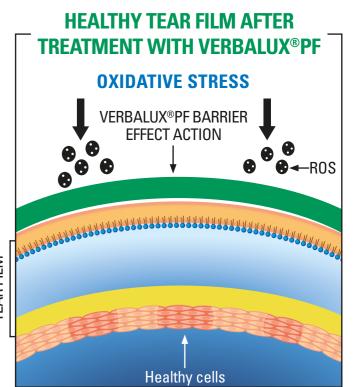
longed exposure to very high temperatures (moist heat sterilisation test: 121 °C; 2.1 bar; 15 min)



VERBALUX®PF HAS A LUBRICANT EFFECT TO RELIEVE DRY EYE SYMPTOMS AND PRO-TECTS THE TEAR FILM THROUGH ITS BARRIER EFFECT AND ANTIOXIDANT ACTION TO SUPPORT THE PHYSIOLOGICAL HEALING PROCESS

VERBALUX®PF BARRIER EFFECT





VERBALUX®PF BARRIER ACTION

IN VITRO EVALUATION OF THE PROTECTIVE/BARRIER ACTION ON RECONSTRUCTED OCULAR EPITHELIUM (2)

The protective action of VERBALUX®PF has been tested in vitro. The test shows the substantial reduction of oxidative stress induced by pollution.



TREATMENT	ROS (% of NC)
NC	100,00 ± 15,71
UD	237,8 ± 3,14
UD + TS	197,00 ± 13,58

NC = negative control, untreated and not stimulated cells;

UD = cells stimulated with urban dust;

UD+TS = cells treated with the tested sample and stimulated with urban dust

RESULTS

In the tissues treated with the tested product the ROS levels are reduced by 17.13% compared to untreated tissues, and this indicates the presence of a protective action against atmospheric pollution

Broch 4P A4 VERBALUX PF EN Ref BR VX. REV 00. 21-02-2020(13) BAT.indd 3-4