

navilipo[®]

EYE DROPS

**LIPOSOMAL SOLUTION FOR
OCULAR SURFACE DISORDERS**

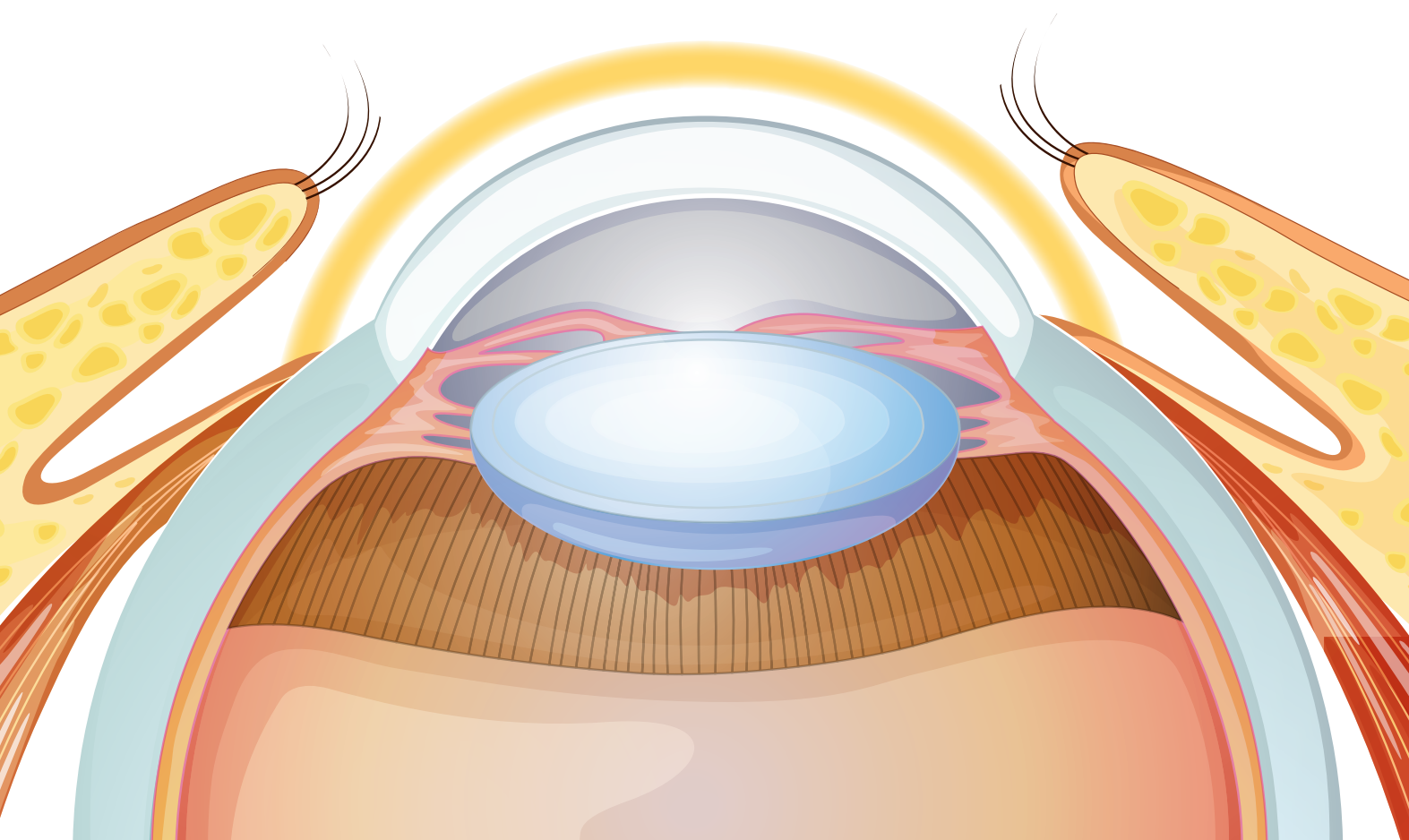


NOVAX[®]
PHARMA

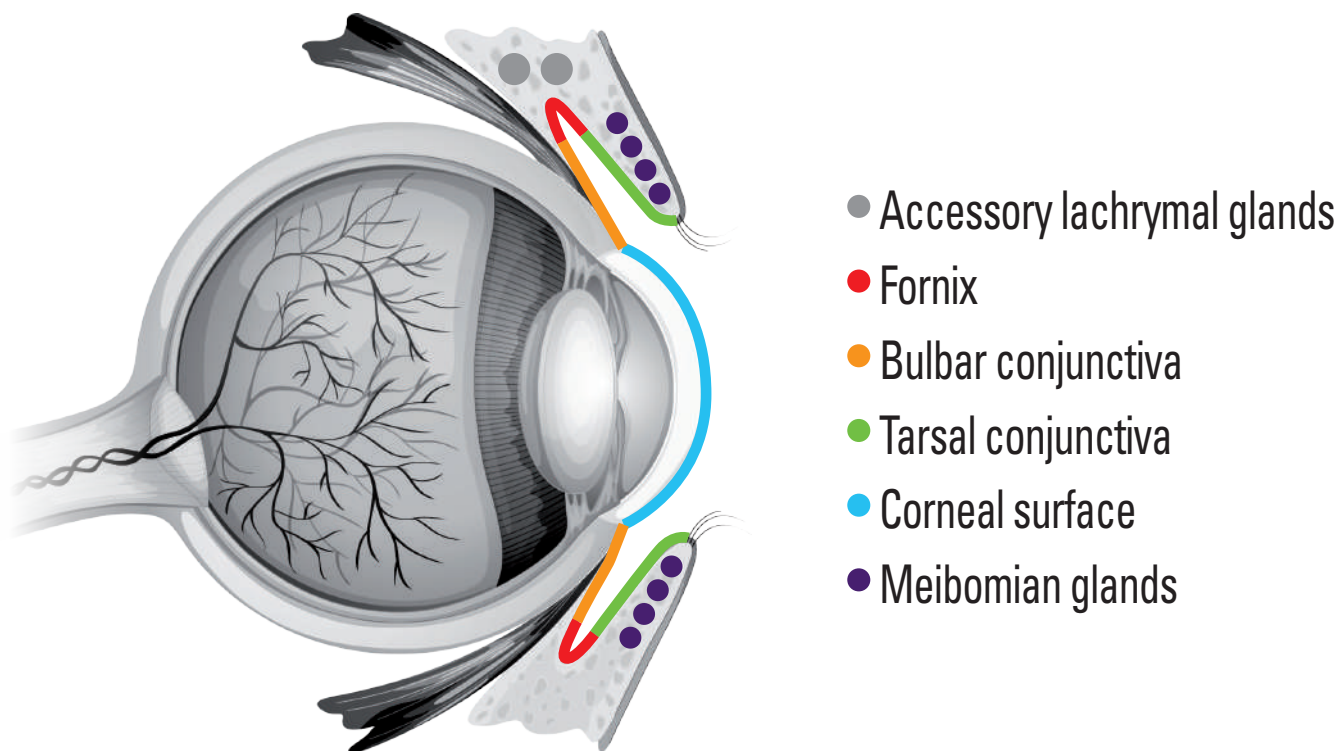
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**FORMS A THIN HYDROPHOBIC BARRIER
MAINTAINING:**

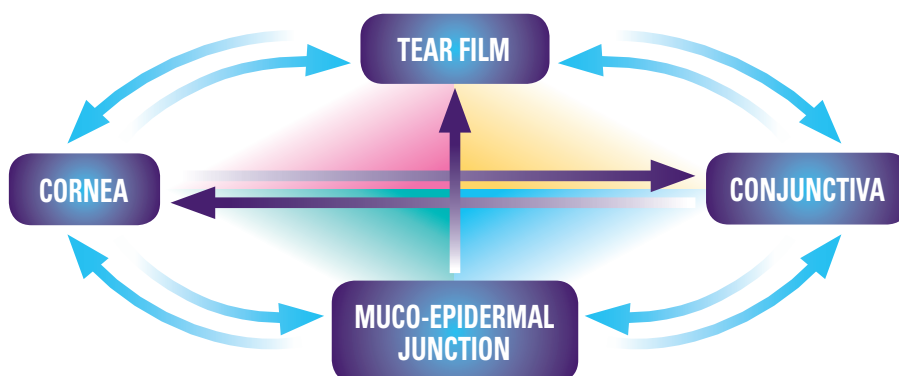
- **A PROPER MICROENVIRONMENT** for a healthy ocular surface, especially in case of **DRY EYE, SURGERY AND CORNEAL EROSION.**
- **A UNIFORM AND SMOOTH SURFACE,** with excellent optical properties.



The **OCULAR SURFACE** is the interface between the eye and the external environment. It is made up of different structures which work together as a functional unit.



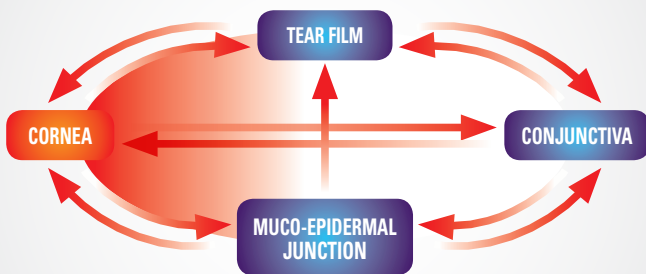
Any alteration in one of these structures can cause a chain reaction involving all the other ocular surface components.



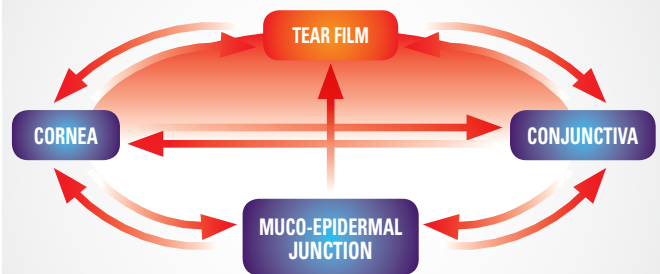
In the treatment of ocular surface disorders the **therapeutic goal** should
SUPPORT THE REPAIR PROCESSES &
ACHIEVE RELIEF OF SYMPTOMS

In case of **DRY EYE, OCULAR SURGERY and CORNEAL EROSION**
THE LIPID LAYER PLAYS A KEY ROLE in the physiological **REPAIR** processes.

SURGERY & CORNEAL EROSION



DRY EYE



ALTERATION OF THE LIPID LAYER PRODUCES

EVAPORATION OF THE AQUEOUS LAYER

REDUCED
NOURISHING
FACTORS

HYPEROSMOLARITY

ALTERED
EPITHELIAL CELL
ACTIVITY AND
REPLICATION

DEATH OF
GOBLET CELLS AND
REDUCTION IN
CORNEAL
GLYCOGEN

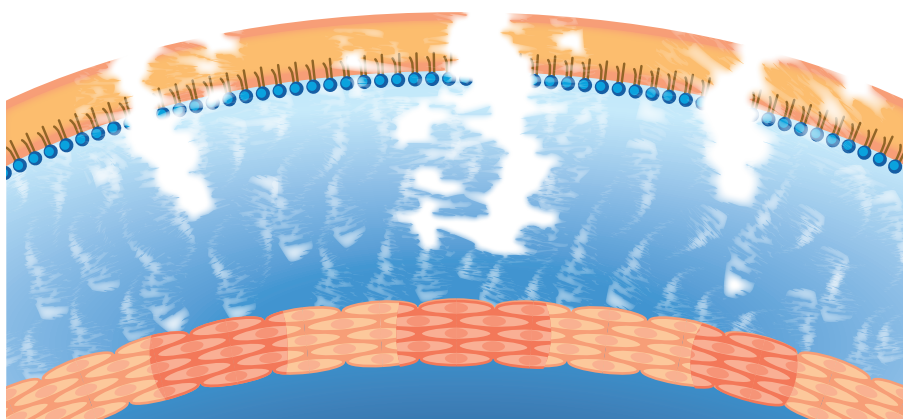
IRREGULAR LIPID LAYER
 causes optical abnormalities
 resulting in a reduction of
VISUAL ACUITY
 and **QUALITY OF VISION**

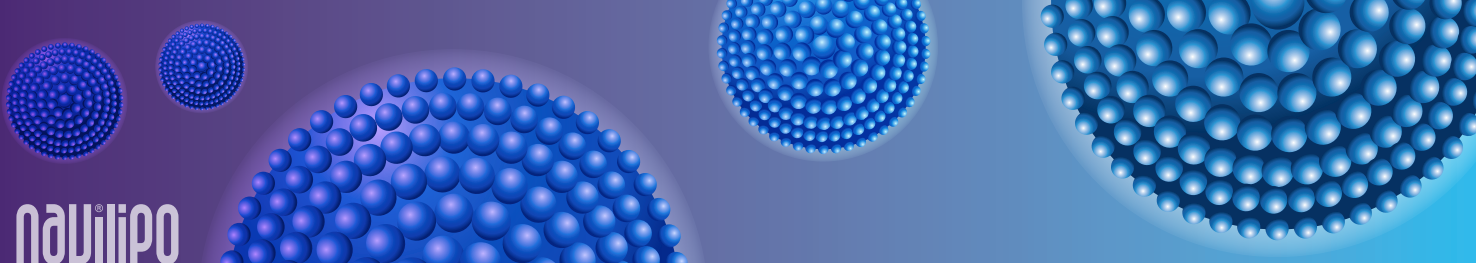
REDUCED LUBRICATION POWER

IRRITATION

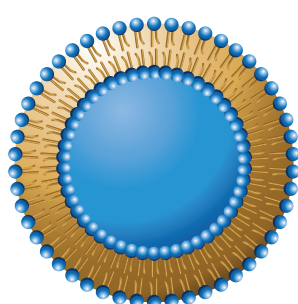
HEAVY/
SWOLLEN
EYELIDS

FOREIGN
BODY
SENSATION

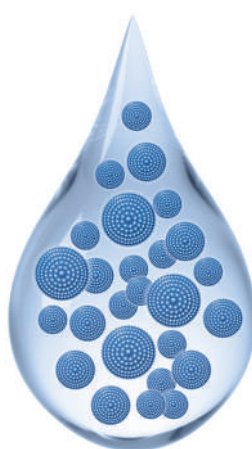




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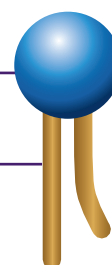
Liposomes/
controlled release



pH 7.2
300 mOsm

POLAR HEAD

APOLAR TAIL

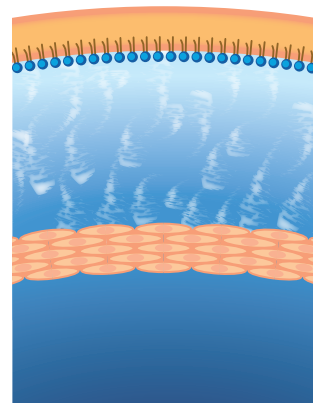
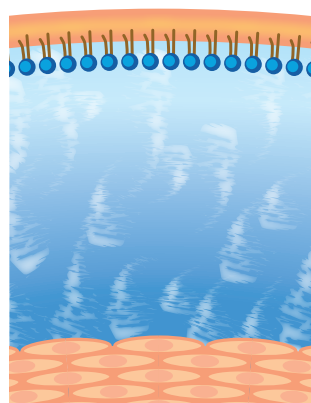
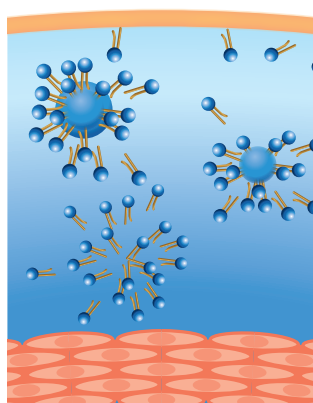
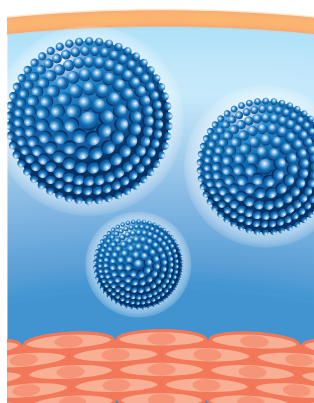


Phospholipids

Ophthalmic liposomal solution which uniformly spreads phospholipids into the lipid layer naturally found in the tear film.

PHOSPHOLIPIDS

- **STABILIZE** the tear film, anchoring the lipid phase to the underlying aqueous phase.
- **MAINTAIN** the lipid structure organized in an orderly and elastic manner.
- **RESTORE** the physiological lipid shield, which controls the evaporation of the tear film and its optical properties.



navi[®]lipo

Restoring and lubricating liposomal eye drops

**WITH LIPOSOMES,
SODIUM HYALURONATE
& VITAMIN E**



REFERENCES

1. Comparative study of treatment of the dry eye syndrome due to disturbances of the tear film lipid layer with lipid-containing tear substitutes. D. Dieter, L. Suwan, D. Sabine, K. J. Chan, S. Gregor, M. Wanda. Klin Monatsbl Augenheilkd 2006; 223: 974-983.
2. Recent Applications of Liposomes in Ophthalmic Drug Delivery. G. PMishra, M. Bagui, V. Tamboli, A. K. Mitra. Journal of Drug Delivery 22/12/2010.
3. Liposomal Drug Delivery: A Versatile Platform for Challenging Clinical Applications. A. Madni, M. Sarfraz, M. Rehman, M. Ahmad, N. Akhtar, S. Ahmad, N. Tahir, S. Ijaz, R. Al-Kassas, R. Löbenberg. J Pharm Pharm Sci. 03/08/2014.
4. Liposomes in topical ophthalmic drug delivery an update. R. Agarwal, I. Iezhitsa, P. Agarwal, N. A. Abdul Nasir, N. Razali, R. Alyautdin, N. M. Ismail. Drug Deliv, 2016; 23(4): 1075-1091.
5. Performance profile of sodium hyaluronate in patients with lipid tear deficiency: randomised, double-blind, controlled, exploratory study. P. Prabhasawat, N. Tesavibul, N. Kasetsuwan. Br J Ophthalmol 2007; 91:47-50.
6. Ocular irritation – Novax Pharma Data
7. Compatibility with contact lenses – Novax Pharma Data
8. Cytotoxicity test – Novax Pharma Data
9. Hypersensitivity test – Novax Pharma Data



www.novaxpharma.com

TECHNICAL DESCRIPTION

COMPOSITION:

Solution with Liposomes, Aloe Vera gel 1%, Chamomile Extract, Sodium Hyaluronate, Vitamin E-TP, Disodium Edetate, PHMB in an Isotonic buffered solution.

PS: Does not contain Chlorhexidine, Thimerosal, or Benzalkonium Chloride.

DESCRIPTION:

NAVI[®]LIPO is a lubricating and restoring ophthalmic liposomal solution made up from phospholipids which are natural constituents of the lachrymal fluid which helps restore the lipid layer. The sub-microscopic lipid particles dispersed in the micro-emulsion protect the ocular tissue, by forming a thin hydrophobic barrier, which mimics the lipid layer naturally found in the tear film.

INDICATIONS:

NAVI[®]LIPO eye drops helps restoring the ocular surface micro-environment altered by the increased tendency to evaporate, instability of tear film, traumas, ocular surgery, wear of contact lenses, prolonged exposure to computer terminals.

DIRECTION FOR USE:

- 1 - Shake before use.
- 2 - Wash your hands before using the eye drops bottle.
- 3 - Instill 1 or 2 drops of the solution in each eye, as many times as needed or according to your specialist's recommendation.

NAVI[®]LIPO can be used with all types of contact lenses.

WARNINGS:

- In case of eye irritation, stop using the product and contact a physician.
- Do not use if you are allergic to any of the product components.
- Do not touch the eyes with the tip of the bottle.
- Keep out of the reach of children.
- Do not ingest.
- Do not use the product after the expiry date.
- Use within 28 days of first opening.
- Sterile until first opening.
- Close the bottle tightly immediately after use.

CONTRAINDICATIONS:

- None known.

STORAGE:

- Keep away from heat sources.
- Store in a dry place, between 5 and 35°C.

Bottle 3 ml

Bottle 10 ml

STERILE | A



NOVAX[®]PHARMA
Le Coronado
20, Av. de Fontvieille
MC 98000 MONACO
www.novaxpharma.com

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