

## RELUB LC EYE DROPS

Sodium Carboxymethylcellulose 0.5%

### COMPOSITION

Each ml contains	
Sodium Carboxymethylcellulose IP	0.5% w/v
Levocarnitine	
Stabilized Oxychloro Complex (As preservative)	0.005 % w/v
Sterile aqueous vehicle	q.s.

### PHARMACOLOGY

**RE-LUB LC Eye Drops** contains Sodium Carboxymethylcellulose which is used as a lubricant for dry and irritated eyes.

Dry eye is a common disease of the ocular surface that is associated with corneal surface irregularity and blurred vision. Common causes for dry eyes include wind, sun, heating/air conditioning, computer use/reading, and certain medications. Eye lubricants like **RE-LUB LC Eye Drops** keep the eye moist, help to protect the eye from injury and infection, and decrease symptoms of dry eyes such as burning, itching, and foreign body sensation in the eye. **RE-LUB LC Eye Drops** lubricates tear film and rehydrates cornea and thus soothes the eye.

Sodium Carboxymethylcellulose improves the corneal surface wettability and tear film integrity, effectively improves visual acuity, significantly improves the TBUT (Tear film breakup time) and thus protects the ocular surface. It improves viscoelasticity and humectation of the cornea surface, hence lubricates eye surface. Excellent mucoadhesion contributes to retentive properties hence enhances the moistening of eye surface.

Studies have found lack of carnitine in the tears of dry eye patients and hypothesized a reason behind damage in ocular surface and suggested use of solutions containing carnitine to reduce this damage. L-carnitine was found to protect against stress activation of corneal epithelial cells by reducing levels of kinase, phosphorylation of which leads to an increased expression of inflammatory mediators. It has been found that Carnitine increases Glutathione (GSH) level by improving energy metabolism, inhibition of electron leakage from mitochondrial electron transport systems, and enhanced repair of oxidized membrane/lipid bilayers, thereby maintaining lenticular GSH levels. Hence it has proved its antioxidant effect in eyes.

**RE-LUB LC Eye Drops** contains a unique, mild, non-sensitizing preservative that when used, ultimately changes into components of natural tears (sodium chloride and water). The viscolizing properties of carboxymethylcellulose

combined with sodium chloride have been shown to increase the tear film break-up time in animal models, whilst also acting as a lubricating agent for dry eyes.

### **INDICATIONS**

- Severe dry eye syndrome
- Dry eye shows up post LASIK & Cataract surgery

### **DOSAGE & ADMINISTRATION**

Instill 1 to 2 drops in the affected eye(s) as needed.

### **CONTRAINDICATIONS**

Hypersensitivity to any components of this medication.

### **PRECAUTIONS**

- Remove contact lenses before using this eye drop.
- To avoid contamination do not touch tip of container to any surface. Replace cap after using.
- Do not use if solution changes colour or becomes cloudy.
- Keep out of reach of children.

### **WARNINGS**

- This product may temporarily cause blurred vision right after being placed in the eye(s). Do not drive, use machinery, or do any activity that requires clear vision until you are sure you can perform such activities safely.
- If you experience eye pain, changes in vision, continued redness or irritation of the eye and if the condition worsens or persists for more than 72 hours, discontinue use and consult a doctor.

### **ADVERSE REACTIONS**

**RE-LUB LC Eye Drops** rarely causes serious side effects or an allergic reaction. Vision may be temporarily blurred when this product is first used. Minor burning, stinging or irritation may temporarily occur.

### **PRESENTATION**

**RE-LUB LC Eye Drops** is available as a sterile plastic vial of 10 ml.

### **STORAGE**

Store below 25° C in a dry place. Protect from light.