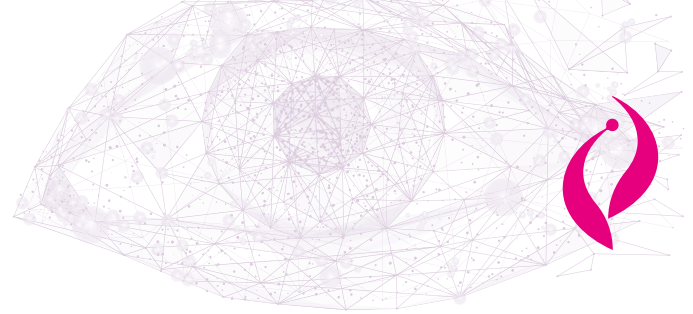


# Carragelose®

## Eye drops



### Novel ophthalmic solution for lubrication & beyond

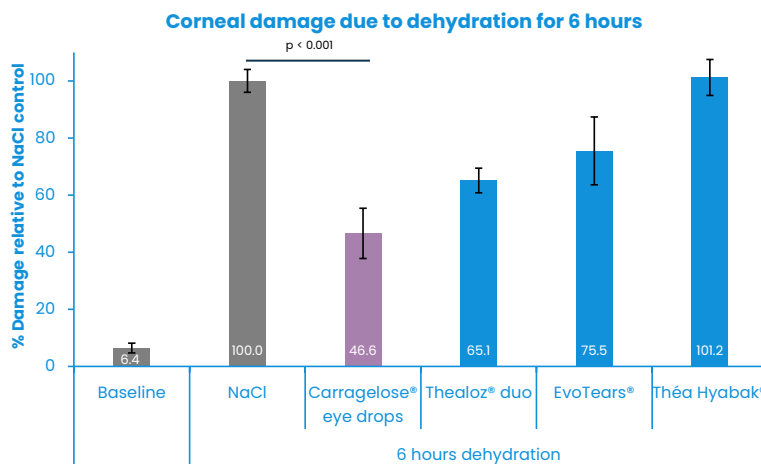
- Ophthalmic solution based on Carragelose® with moisturizing and mucoadhesive properties
- Forms a protective barrier on the ocular surface; the moisture film supports the body's natural defense mechanisms
- Can be used as lubricant to prevent further irritation or to provide long-lasting relief for dry eyes

### Benefits

- Combines moisturizing with virus- and allergen-blocking properties
- Outstanding safety profile shown in more than 10 preclinical safety and toxicity studies
- For adults and children 6y+
- Clinically validated, patent-protected & CE-certified
- Sterile, preservative-free, multi-dose container (3.2 mg/ml Carragelose®)

### Data<sup>1</sup>

#### Ex-vivo testing on porcine eyes to assess the hydrating potential of Carragelose®

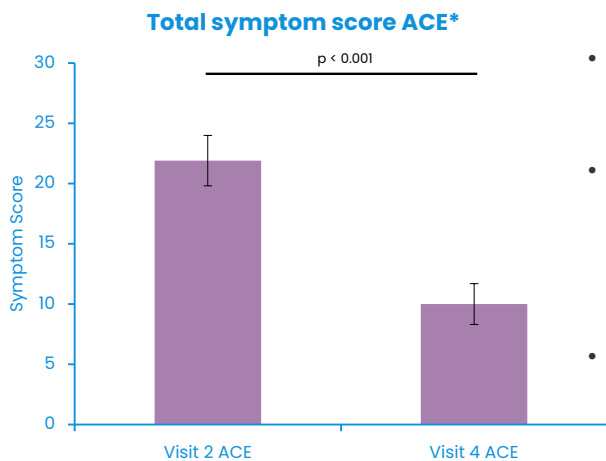


- Porcine eyes dehydrated by exposure to air flow for 6h
- Treatment: repeated instillation of 0.9% NaCl, Carragelose® eye drops or marketed competitor products
- Corneal damage quantified by dye extraction from corneal punches after fluorescein staining

**Carragelose® eye drops outperform marketed products on porcine eyes**

Data on file by Marinomed; error bars represent the SEM; statistical analysis done by ANOVA

#### Clinical study in Spain evaluating the lubricating effectiveness of Carragelose® eye drops in patients affected by mild to moderate dry eye



- 28 dry eye patients treated with eye drops: 28 days, 3x daily, one drop/eye
- Adverse controlled environmental conditions: 23°C, 10% relative humidity and airflow to challenge dry eye symptoms
- Assessment of difference in dry eye-related symptoms before and after treatment

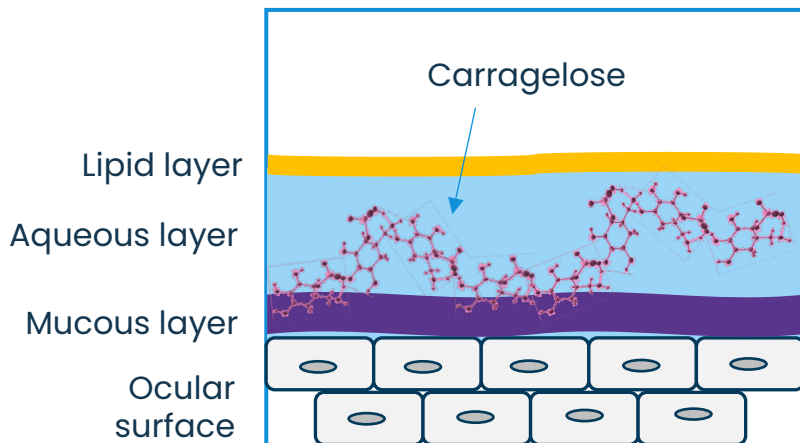
**54% improvement of dry eye-related symptoms**

\*ACE = adverse controlled environmental conditions

<sup>1</sup>Data on file by Marinomed

## Mode of Action

Carragelose® (iota-carrageenan) is a high-molecular weight polymer derived from red seaweed. Due to its high water-binding capacity, Carragelose® forms soft gels in the presence of water, creating a protective and moisturizing barrier on mucosal surfaces such as the nasal or ocular surface. This barrier has been shown to prevent both viruses and allergens from interacting with the mucosal surface, thereby being effective in preventing and treating viral respiratory infections and allergic indications. Furthermore, the moisturizing film created by Carragelose® has lubricating properties that provide relief for dry eyes.



Alternative to  
hyaluronic acid  
with additional  
virus- and  
allergen-blocking  
properties

## Partnering opportunities

- Medical device class IIa - valid CE-certificate under transition period until 2028 (MDD), switch to MDR on track
- Approved claims: Lubricant to prevent further irritation or to relieve dryness of the eye
- Might be first causative treatment for adenoviral keratoconjunctivitis
- First partnership for Austria in place
- Classical license deal with downpayment, milestones and royalties
- Global and territorial license available
- Private label possible
- Other Carragelose® products available for partnering: nasal & throat sprays, lozenges

## About Marinomed Biotech AG

**Marinomed Biotech AG** is an Austrian, science-based biotech company with globally marketed therapeutics and a growing development pipeline. The Company focuses on the development of innovative products based on two patent-protected technology platforms, Marinolv® and Carragelose®. Marinomed is listed on the Vienna Stock Exchange (VSE: MARI).



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Carragelose®

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