Carragelose eye drops for lubrication and beyond

November 2023





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Executive summary: Carragelose eye drops

Lubricant eye drops to treat DED with a potential in viral keratoconjunctivitis

Business model

- Ophthalmic partner in classical license deal
 - Dry eye Disease
 - Adenoviral keratoconjunctivitis
 - Allergic conjunctivitis

Market opportunity

 Tapping into fast growing multi-billion Euro market such as Dry eyes (\$6bn)¹ and viral eye infections

Clinically proven

 Clinical studies with a total of more than 1,000 patients in the indications common cold and allergy

Patent protected until 2036

Carragelose®

- Sulfated polymer
- High molecular weight
- Moisturizing and hydrating properties
- Broadly effective against viral infections

Established finished product

- Preservative free formulation
- Aseptic process
- Multidose container

Safety

- Excellent safety profile
- Proven ophthalmic tolerability



Medical Device

- Class IIa (93/42/EEC)
- Transition to MDR on track (class IIb)
- Transition period until
 2028



Licensing opportunities - overview

2 product licenses available

1. Carragelose Dry Eye Relief

Description

Claims

Launch timelines

License availability

- Sterile, preservative free ophthalmic solution in a multi dose container
- Unique & patent protected
- Shelf life: 3 years
- Approved claims: Relief of irritated and dry eye
- Regulatory status: Medical Device Class IIa (IIb under MDR)
- First Launch in EU: Austria Q3/2024
- Possible first launch in other countries: Q1/2025
- License available: global and territorial
- Private label possible

2. Carragelose Antiviral Eye Drops

- Sterile, preservative free ophthalmic solution in a multi dose container
- Unique & patent protected
- Shelf life: 3 years
- Planned claims: Prophylaxis and Relief of irritations due to viral ophthalmic infection (keratoconjunctivitis, "pink eye disease")
- Planned Regulatory status: Medical Device Class Ilb under MDR
- Estimated first Launch in EU: 2026/2027
- Additional clinical study in planning
- License available: global, territorial
- Private label possible



Marinomed at a glance

Publicly listed biopharmaceutical company located in the Vienna region

2006

Foundation

2008

Launch of Carragelose

2016

Invention of Marinosolv

2019

IPO and Marinosolv clinical validation

2021

Marinosolv deal and Solv4U launch

2022

Deal with Procter & Gamble



Prime Market Segment of the Vienna Stock Exchange MARI:AV; ATMARINOMED6; MARI.VI

Therapeutic areas

VIROLOGY

Revenue-generating OTC portfolio

IMMUNOLOGY

High-value products in late-stage development



Solubilization technology partnerships for customers



Pipeline

Including late-stage projects with low risk and high upside potential

Pharmaceutical Products

						Filing
	Filing in preparation					
1AM-1004-2 utoimmune gastritis	Pre-clinical					
	Filing in					
1.	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis AM-2001-1/Carravin Phase II clinical study Pre-clinical	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis AM-2001-1/Carravin Filing in	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis AM-2001-1/Carravin Filing in	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis AM-2001-1/Carravin Filing in	AM-1003-1/Tacrosolv evere inflammatory eye diseases AM-1004-2 utoimmune gastritis AM-2001-1/Carravin Filing in

OTC Medical Devices

Therapeutic area	Product Indication	Status	Pre-clinical	Clinical studies	Certification
IMMUNOLOGY	MAM-1001-4 nasal spray Prophylaxis of mild allergic rhinitis	Pre-launch			
	MAM-1001-3 eye drops Dry, irritated eyes	Pre-launch			
VIROLOGY	MAM-1001-1/Inhaleen Viral pneumonia	Clinical studies			



Carragelose®

Protective layer against viruses and allergens – multi-use potential

CCA² market volume: US\$ 36 bn³

Viral respiratory diseases

- Broadly-active against numerous respiratory viruses
- Clinically validated1
- Marketed product portfolio in 40+ countries





Cold market volume: US\$ 10bn⁵

Carragelose







- Carragelose has excellent moisturizing and mucoadhesive properties
- Eye drops: relief for dry eyes
- Active against several Adenoviruses⁴: prospective treatment for adenoviral keratoconjunctivitis

 Carragelose nasal spray clinically effective in reducing allergic symptoms in the nose¹

 Carragelose/Sorbitol combi shows significant decongestant effect in clinical trial¹ Allergy market volume: US\$ 5.7bn³ Eye care market volume: US\$ 6bn⁶



²CCA = Cough, cold & allergy

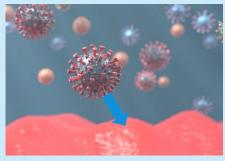
³ CHC Yearbook 2023, Nicolas Hall

⁴ Marinomed internal data

⁵ Target market volume: 28% of total CCA market (topical decongestants, sore throat) as depicted in CHC Yearbook 2023, Nicolas Hall

⁶ Target market volume: 19% of total CCA market (allergy) as depicted in CHC Yearbook 2023, Nicolas Hall

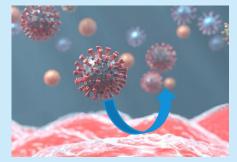
Carragelose® mode of action and benefits



Without iota- carrageenan:
Virus / allergens interact
with mucosal cell

Mode of action1

- Carragelose non-specifically covers the mucosal surface and prevents binding of virus/allergen to the mucosa, thereby reducing the immune response without being pharmacologically active
- Carragelose is mucoadhesive and lubricating



With iota-carrageenan:
Barrier prevents interactions
of viruses and allergens

Carragelose (lota-carrageenan): effective, safe & patent protected

- Carragelose acts as active ingredient in Marinomed's Carragelose product line
- Favourable safety profile established in several clinical studies in >1000 participants and also proven in post market surveillance data (<1 adverse events/100.000 sold units)
- Global patent protection until 2036

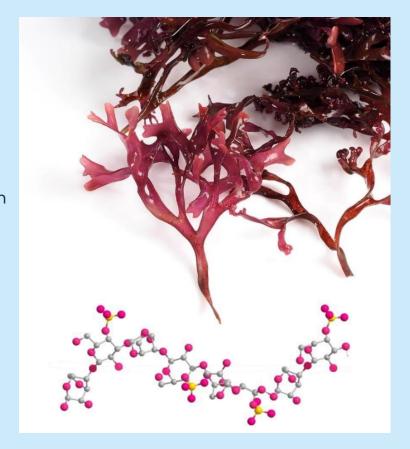
Broadly effective against viruses and allergens with a high safety profile



Carragelose® beyond Virus and Allergens

Excellent hydrating and mucoadhesive properties

- Carragelose is iota-carrageenan derived from red seaweed in pharmaceutical quality
- Carragelose is a new opportunity to treat dry eye disease
- Carragelose has the potential to be the first product targeting adenoviral keratoconjunctivitis
- Carragelose is the active ingredient of multiple marketed products in the indication common cold
- The use of Carragelose is patent protected by several patent families
- Additional IP exists with respect to preclinical and clinical data, production knowhow, stability data
- Favourable safety profile may be used in children from six years up,
 and by pregnant and breastfeeding women (GRAS Status with the FDA)

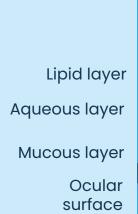


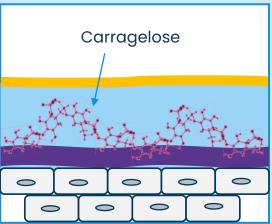


Carragelose® as eye lubricant

A high molecular weight polymer with moisturizing and mucoadhesive properties

- High molecular weight polymers, such as Carragelose, do not penetrate mucosa or skin
- Carragelose is known for an exceptionally high water uptake¹ and excellent water retention properties². Carragelose has all properties to ensure a pronounced aqueous layer.
- Carragelose forms soft gels in contact with water and can support the natural gel-forming oligosaccharide of the secreted mucins to build a stable mucous layer
- Stabilizes tear film





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



Carragelose eye drops

Eyeleen





Product characteristics:

- Regulatory status: medical device class IIa (EU, MDD), application for MDR (IIb) by end of 2023; valid CE mark under transition period until 2028 (MDD)
- Legal manufacturer: Hälsa Pharma GmbH, Lübeck (MDR certified)
- · Notified body: Medcert Lübeck, Germany
- 3.2 mg/ml Carragelose[®]
- Volume: 10 ml
- Prophylaxis and Therapy: 3 x daily
- for adults and children 6y+

Preservativefree, multidose container

Claims in EU and product characteristics:

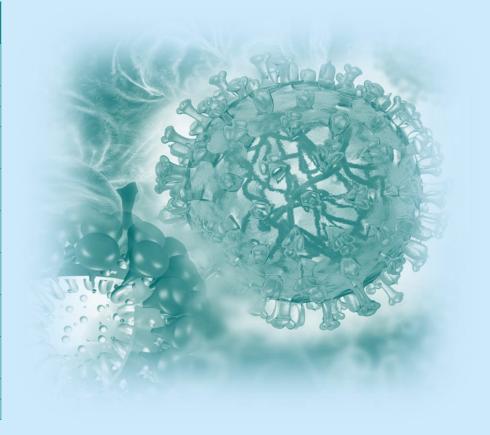
- Eyeleen is used for the relief of symptoms due to dryness of the eye
- Eyeleen is an ophthalmic solution, which forms a protective barrier on the ocular surface, this moisture film supports the body's natural defense mechanisms
- Eyeleen can be used as lubricant to prevent further irritation or to relieve dryness of the eye
- Eyeleen protects against excessive tear evaporation
- Eyeleen can be used during the day as it does not cause blurred vision
- Eyeleen can be used from age 6 years onwards



Carragelose® – Broadly active virus blocker

These viruses infect the respiratory tract or the eye and may worsen diseases such as COPD or keratoconjunctivitis

Virus type	In-vitro data	In-vivo data	Clinical data
Corona virus (OC43, 229E)	✓		✓
SARS-CoV-2	✓		✓
Rhinovirus A and B	✓		✓
Influenza A virus: human pathogenic	✓	✓	✓
Influenza A virus: bird flu	✓	✓	
Influenza B virus	✓		√ *
Respiratory syncytial virus	✓	✓	√ *
Parainfluenza virus	✓		√*
Metapneumovirus			√ *
Adenovirus 2, 8, 19, 32, 37, 50	✓		
Coxsackievirus A10	✓		





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