Carragelose

Prophylaxis and therapy against allergic rhinitis

November 2023





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Executive summary: Carragelose allergy products

Two independent products for prophylaxis and therapy of allergic rhinitis

Business model

 Open for partnering in classical license deal and/or distribution deal

Market opportunity

- Fast growing allergy market (\$36bn)¹
- Two independent products for prophylaxis and therapy

Carragelose

- Sulfated polymer
- High molecular weight
- Allergen-blocking properties

Patent-protected until 2036

Safety

- Excellent safety profile
- Proven intranasal tolerability

Established finished products

- Preservative free formulation
- Aseptic process
- Multidose container

Clinically proven

- Prophylaxis: Reduces allergic symptoms
- Therapy with decongestant medical device: relief of blocked nose



Medical Device

- Class Is / I (93/42/EEC)
- Transition to MDR on track as medical devices class IIa
- Transition period until
 2028



¹CHC Yearbook 2023, Nicolas Hall

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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 latestage development



Solubilization technology partnerships for customers



Pipeline

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

Pharmaceutical Products

Therapeutic area	Product Indication	Status	Pre-clinical	Phase I	PhaseII	Phase III	Filing
IMMUNOLOGY	MAM-1004-1/Budesolv Treatment of severe allergic rhinitis	Filing in preparation					
	MAM-1003-1/Tacrosolv Severe inflammatory eye diseases	Phase II clinical study					
	MAM-1004-2 Autoimmune gastritis	Pre-clinical					
VIROLOGY	MAM-2001-1/Carravin Nasal congestion	Filing in progress					

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





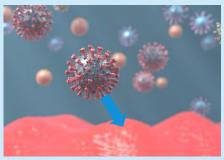
³ CHC Yearbook 2023, Nicolas Hall

⁴ Marinomed internal data

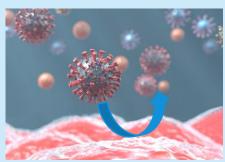
⁵ Target market volume: 28% of total CCA market (topical decongestants, sore throat) as depicted in CHC Yearbook 2023, Nicolas Hall

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



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

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
- Newly synthesized virus particles released by already infected cells are also entrapped in the layer, resulting in an inhibition of viral spread
- · Carragelose is mucoadhesive and lubricating

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, with a SARS-CoV-2 patent submitted in 2020

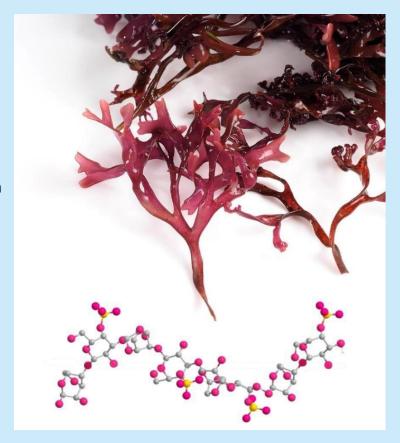
Broadly effective against viruses and allergens with a high safety profile



Carragelose, Virus and Allergen Blocker

Safe and effective active ingredient to protect the mucosa from allergens

- Carragelose is iota-carrageenan derived from red seaweed in pharmaceutical quality
- Carragelose protects the nasal mucosa from contact with allergens; hyperosmolar
 Carragelose product reduces nasal congestion; both confirmed in clinical trials in the indication allergic rhinitis
- 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 one year up,
 and by pregnant and breastfeeding women (GRAS status with the FDA)





Allergic rhinitis nasal spray

Provides symptomatic relief in mild and moderate allergic rhinitis



Product characteristics:

- Regulatory status: medical device class I (EU), application for MDR (class IIa) transition period until latest May 2024
- Legal manufacturer: MoNo chem-pharm Produkte GmbH, Vienna (MDR certified)
- Notified body: TÜV Süd, Munich, Germany
- 1.2 mg/ml Carragelose®, buffer system
- Volume: 20 ml, 140µl solution per puff
- · Application:
 - Prevention: 3 x daily one puff per nostril
 - Therapy: increase of use at the first signs of common cold; no limitations applicable
- Use for adults and children ly+ (EU)

Proposed Claims in EU:

- Symptomatic treatment in the indication allergic rhinitis
- May be used prophylactically
- · Serves to moisten the nasal mucous membrane when it is dry or irritated.
- · Can be used for the prophylaxis and supportive treatment of all complaints resulting from dry and irritated nasal mucosa.

Target market volume: US\$ 5.7 bn¹

Preservative-

free



Allergen blocking decongestant nasal spray

Provides symptomatic relief in both, allergic and infectious rhinitis



Product characteristics:

- Regulatory status: medical device class Is (EU, MDD), application for MDR (IIa) 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
- 1.2 mg/ml Carragelose®, 0.4 mg/ml kappa-Carrageenan, Sorbitol
- Volume: 20 ml, 140 µl solution per puff
- · Application:
 - Prevention: 3 x daily one puff per nostril
 - Therapy: increase use at the first signs of rhinitis; no limitations applicable
- Use for adults and children ly+ (GRAS status with the FDA)

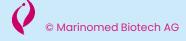
Authorized Claims in EU:

- Provides relief of nasal congestion associated with allergic and non-allergic rhinitis
- · Serves to moisten the nasal mucous membrane when it is dry or irritated. Can significantly reduce symptoms
- · Can be used for the prophylaxis and supportive treatment of all complaints resulting from dry and irritated nasal mucosa



Preservative-

free



Carragelose – clinical trials overview

Trial	Subjects	Indication	Published	Supports claims
Cardiff	35	Common cold	yes	yes
Children's trial	153	Common cold	yes	yes
Adult's trial	211	Common cold	yes	yes
BI Trial	200	Common cold	yes	yes
Lozenge trial	27	Sore throat	yes	yes
Allergy trial	42	Allergic rhinitis	yes (preprint) ^{1,2}	yes
Decongestant trial	41	Nasal congestion	yes ³	yes
2 SARS-CoV-2 nasal	70+66	Prophylaxis SARS-CoV-2	no	no infection
SARS-CoV-2 inhalation	15	Treatment SARS-CoV-2	no	yes, safety
Pooled analysis	254	Common cold	yes	yes
Observational study I	44	Common cold	no	yes
Observational study II	150	Common cold	Yes	yes

>1000 patients enrolled in 12 international clinical trials



www.marinomed.com www.carragelose.com

Contact: bd@marinomed.com



