



Woulgan® biogel An advanced wound healing product

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Agenda

- The company and the product
- The market
- Our product documentation
- Regulatory classification, label claims and health economics
- Launch plan
- Summary

Biotec Pharmacon

Business areas and core expertise

Tromsø

Beta-Glucan (SBG) technology

- Well documented effect in wound care - diabetic ulcer but also projects in cancer, oral mucositis, and IBD
- Company focus on class III/rule 13 medical device for topical ulcers/wounds (Woulgan^(R)biogel)
- Highly documented and patentprotected platform technology
- Already significant partner interest to take such a product to market

Enzymes – ArcticZymes

- Business based on marine biochemicals
- Core role in PCR contamination control
- Strong IP position for marketed products
- Large unexploited market
- Strong pipeline secured through strategic alliances and acquisition



Woulgan® biogel – the product

Woulgan[®] biogel is a sterile, non-preserved amorphous and thixotrope wound filling gel formulation based on water, glycerol and water soluble polymer chains (Carboxymethyl-Cellulose (CMC) and beta-glucan (SBG)).

Woulgan® biogel is intended for dry to moderate exuding partial and full thickness

wounds such as:

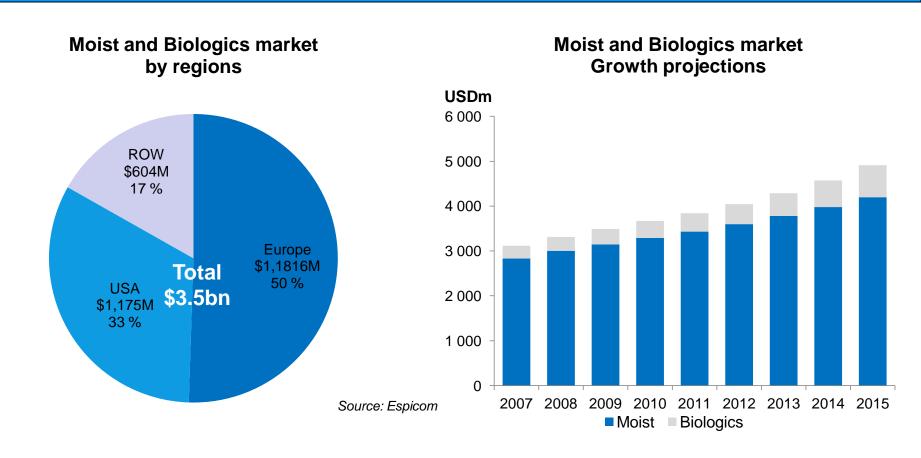
- diabetic ulcers
- pressure ulcers
- leg ulcers
- graft and donor sites
- post-operative surgical wounds
- trauma wounds
- 1st and 2nd degree burns
- Abrasions and lacerations



Woulgan® biogel can be applied to the wound every second day until complete wound healing or for a maximum of 12 weeks unless improvements are seen at that stage.



Woulgan® biogel – the marketAddressing the advanced wound care market





Diabetic ulcer – the market

- More than 50 million people have diabetes in Europe, US and Japan – and the disease is rapidly increasing
- 15% of diabetics will ultimately develop diabetic foot ulcers;
 - Representing about 8 million ulcers in the Western World
 - Annual incidence of at least 1.2 million new ulcers
 - 71,000 amputations in people with diabetes in the US alone
- US medical expenses of USD 27 billion for diabetes care





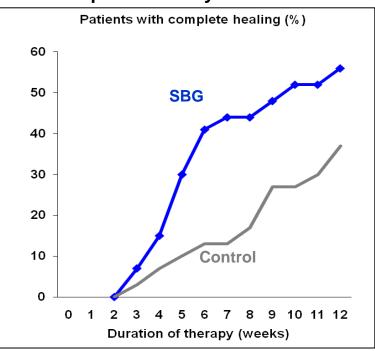
We have an outstanding product -with a lot of documentation

Successful animal study for reformulated product

Days Post-wounding -ve control Water -ve contro

The animal study in diabetic mice shows that the performance of the reformulated SBG product (Woulgan®) with proven stability is close to the positive control and well above typical moister gels used for wound healing

Successful phase 2 study in diabetic ulcer



Placebo controlled double blinded study of 60 patients Statistical significant after 8 weeks



SBG and Woulgan® biogel documentation

- •2002-2011: Pre-clinical toxicology and pharmacology studies using soluble beta glucan in animal models and in *in vitro* models. All studies have confirmed a very good safety profile of the product.
- •2003-2010: Six phase I/II safety studies in volunteers or in patients (cancer & and burns), all confirming the excellent safety profile.
- •2003-2007: One double blinded placebo controlled phase II study for prevention and treatment of diabetic ulcers. With statistical significant outcome.
- •2007-2010: Two double blinded placebo controlled phase III studies for prevention and treatment of diabetic ulcers.
- •2010-2011: Three animal studies with a new medical device composition.
- •2010-2011: Several stability studies with a new medical device composition.



Cost for a user

- 10 weeks 1 dose every 3rd day ~ 23 doses
- Price indication of ~USD 20 per dose, depending on partner preferences
- 23 doses at USD 20 per dose
 =USD 460/treatment
- 8 weeks healing ~ 53% against placebo 33%
- Average shorter healing time was 20 days



This gives the following health economics.....



Strong Health Economics

- 1. Clinical cost savings USD 460 for 20 days saved healing time. 1-2 clinic visits per week means at least 5 visits saved, plus
- 2. Patient convenience and increased healing ratio:

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8 weeks = 20%, 12 weeks = 15%, plus ....
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3. Reduced amputations (based on phase II study):

Placebo = 3 amputations, and

Product = 1 amputation

Total 4 out of 60 patients (7%)



Decided on advanced classification for Woulgan® biogel

- Have decided to go to class III rule 13 to ensure product uniqueness, sufficient strong label claims, and the opportunity to communicate the efficacy
- In general, claims will be as follows:
 - Primary claims related to physical characteristics, like moist, autolytic debridement, protective, etc
 - Secondary (ancillary) claims, related to the beta-glucan effect as a medicinal product improving specific wound healing mechanisms



Upcoming milestones for launch of Woulgan® as Class III, rule 13 medical device

Q1/2012

Q2/2012

Q3/2012

Q4/2012

Q1/2013

Q2/2013

Ongoing stability studies (final formulation)

Regulatory approval (filing technical dossier; filing medicinal file)

Final CMO Partnering

Product Partnering

ISO 13485 approval process

Potential supportive clinical marketing study



What are we looking for at the Bio-Europe?

- 1. We like to have one or several strong commercial partner(s) that can be active in the final product development process and/or the launch of the product in their core markets
- We are open for discussions with potential global, regional or local partners
- No specific funding requirements needed from the partner
- 2. We are presently further evaluating parternships with potential CMOs that are able to fill our Woulgan® biogel



Summary

- We will launch a class III, rule 13 wound healing product in 2013
- Large market potential; few direct competitors
- Strong documentation and health economics
- First prototype is available; large scale batch tested
- We are looking for partners to launch the product in their core markets and CMOs for filling of the product
- The SBG-technology is a platform technology which can be applied in different product settings and indications



