

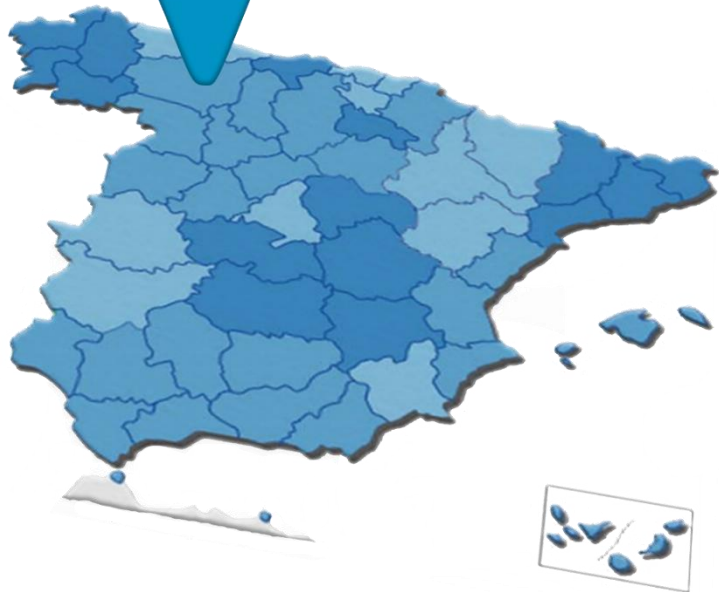
biomar

MICROBIAL TECHNOLOGIES

THE BEAUTY OF NATURAL PRODUCTS: MARINE ACTIVE INGREDIENTS



Amaya Castro Ruiz
CETMAR, Vigo
8th November 2019



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MICROBIAL TECHNOLOGIES

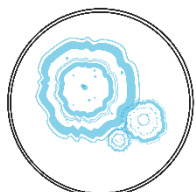


aqua s

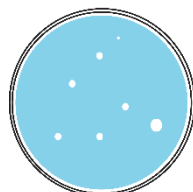
>80.000 STRAINS
taxonomical dereplication



52%
Actinomycetes



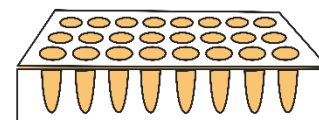
42%
Fungi



6 %
Cyanobacteria
& Microalgae

aqua e

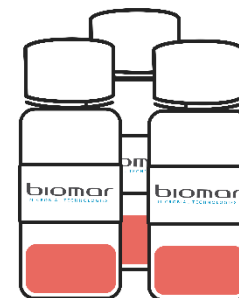
>70.000 EXTRACTS
85% marine origin



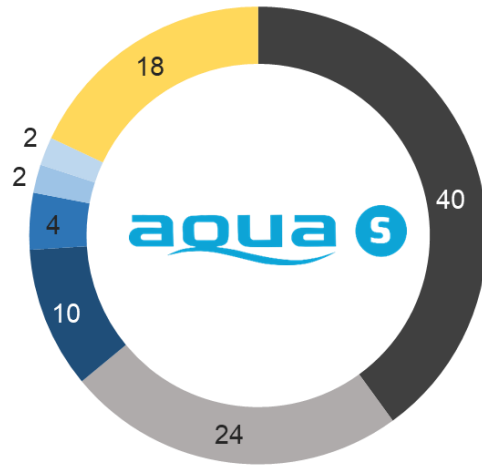
Bioactivity data
Prefractionated-extractlibrary

aqua c

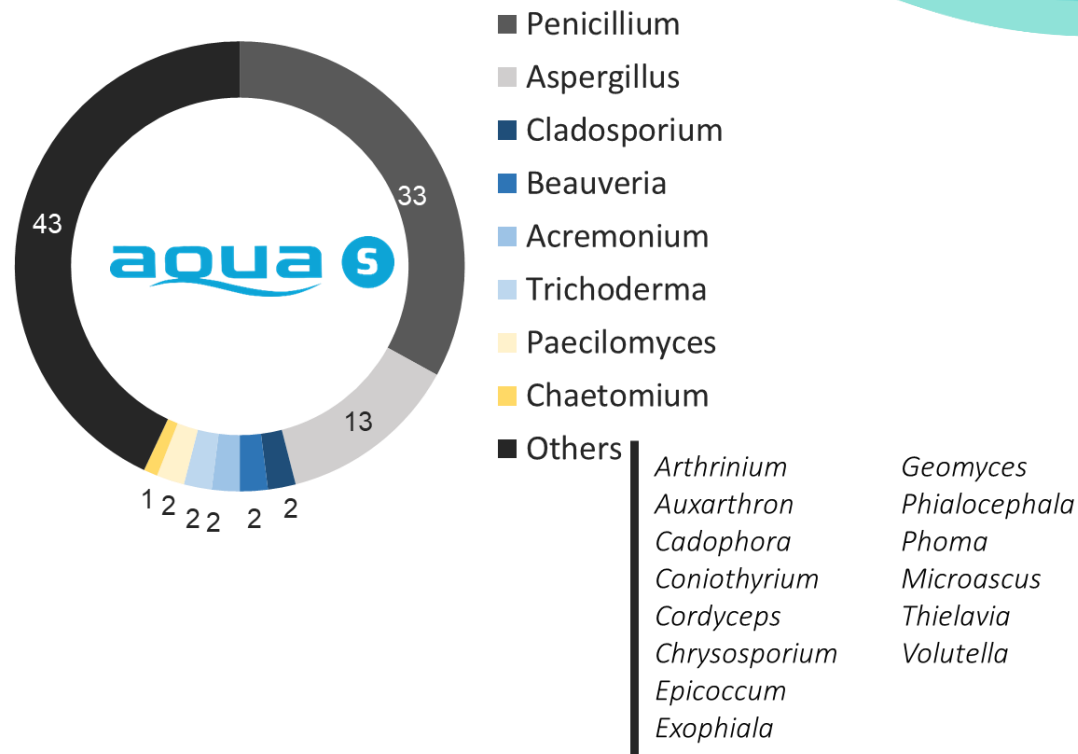
>1.000 COMPOUNDS
24% novel structures

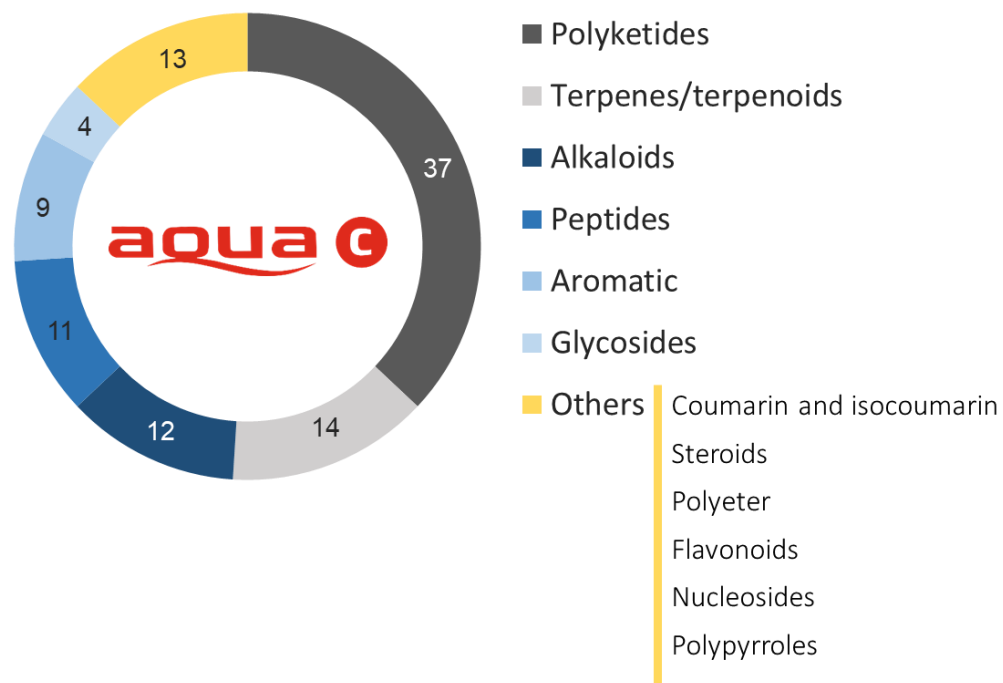


Selection of compounds in stock
SD File available



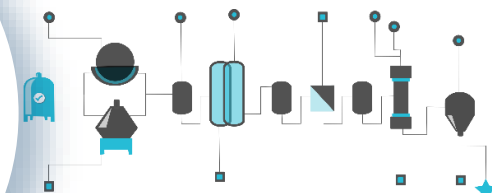
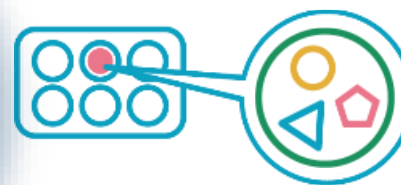
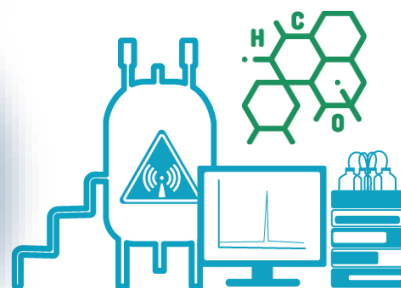
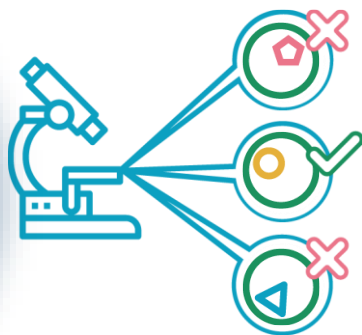
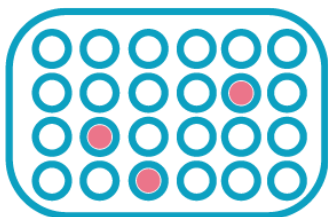
- Streptomycetaceae
- Micromonosporaceae
- Nocardiaceae
- Micrococcaceae
- Pseudonocardiaceae
- Nocardiopsaceae
- Others
 - Gordoniaceae*
 - Thermomonosporaceae*
 - Promicromonosporaceae*
 - Dermatophilaceae*
 - Dietziaceae*
 - Streptosporanciaceae*
 - Microbacteriaceae*
 - Tsukamurellaceae*
 - Cellulomonadaceae*
 - Geodermatophilaceae*

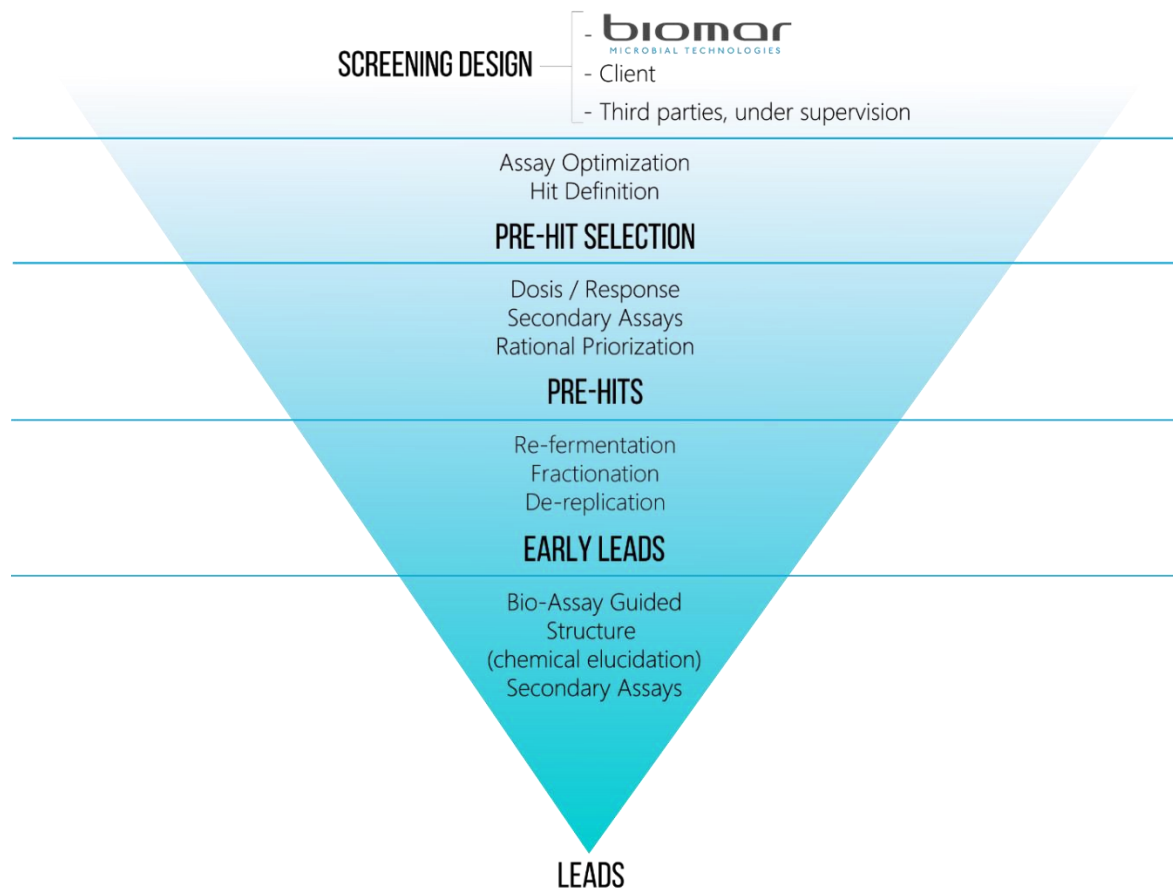


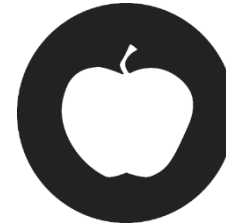
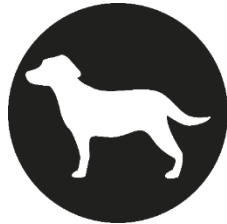


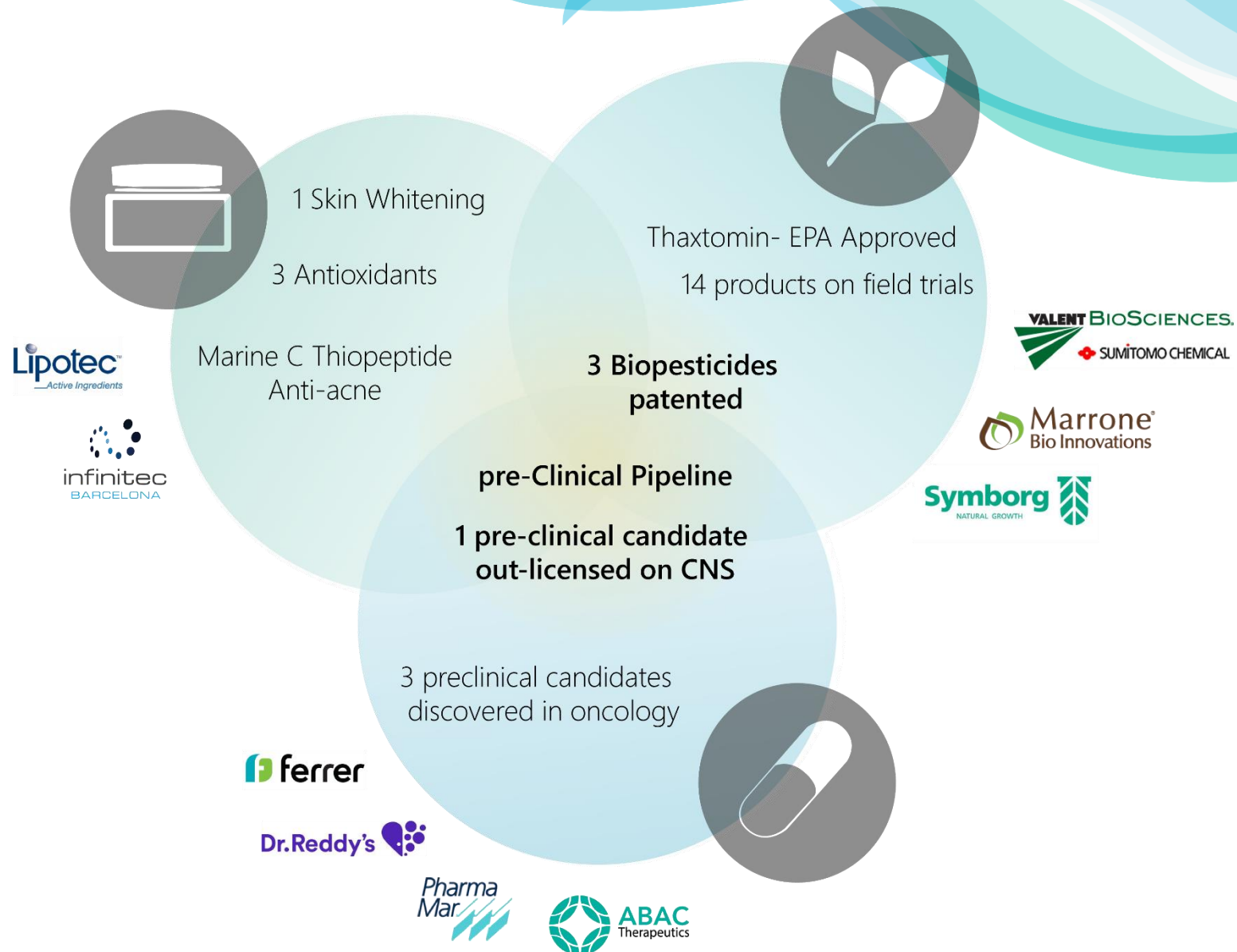


aqua











EFFECTIVE



SUSTAINABLE



NATURAL





Screening Scheme



LIBRARIES



SCREENING



LEADS

aqua e

SKIN WHITENING
ANTIOXIDANT

45.000 extracts

45.000 extracts

6 leads

10 leads

aqua c

ANTI-DANDRUFF
ANTI-ACNE

300 compounds

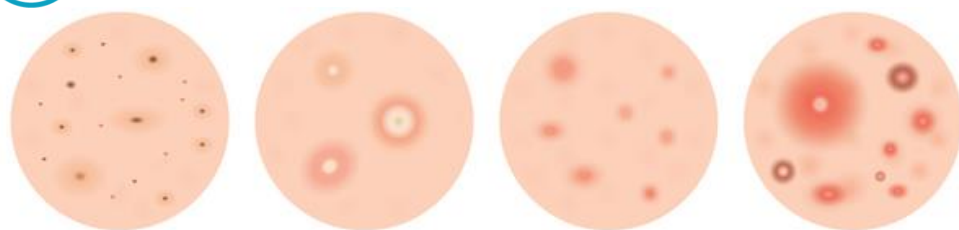
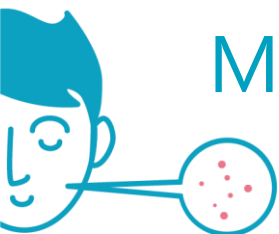
180 compounds

1 lead

1 lead

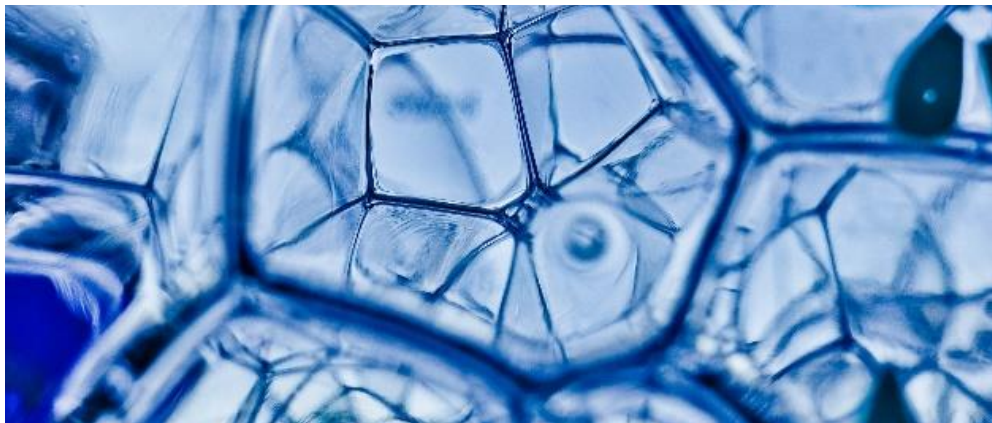


Marine C-Thiopeptide



Mild

Severe



MARINE C - THIOPEPTIDE

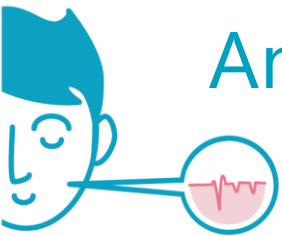
INCI Name : Marine Origin Peptide

Product Description : MARINEcTHIOPEPTIDE is a marine therapy for the treatment of acne and skin imperfections. MARINEcTHIOPEPTIDE is found by bioprospection in the Mediterranean sea which has high antibacterial and anti-inflammatory capacity for the inflammatory acne treatment and, by extension, for acne-prone skin. It is 100% cosmetic ingredient, natural, with proven efficacy and no undesirable side effects. Have an in vitro & Vivo data available.

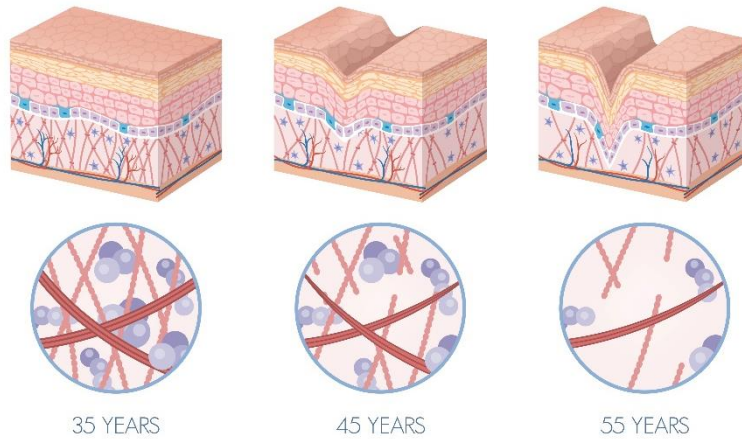
Product Application : Actives - Skin Care - Anti - Acne

Product Form : Liquid





Anti-wrinkle Extract



35 YEARS

45 YEARS

55 YEARS

- HYALURONIC ACID
- COLLAGEN
- ELASTIN

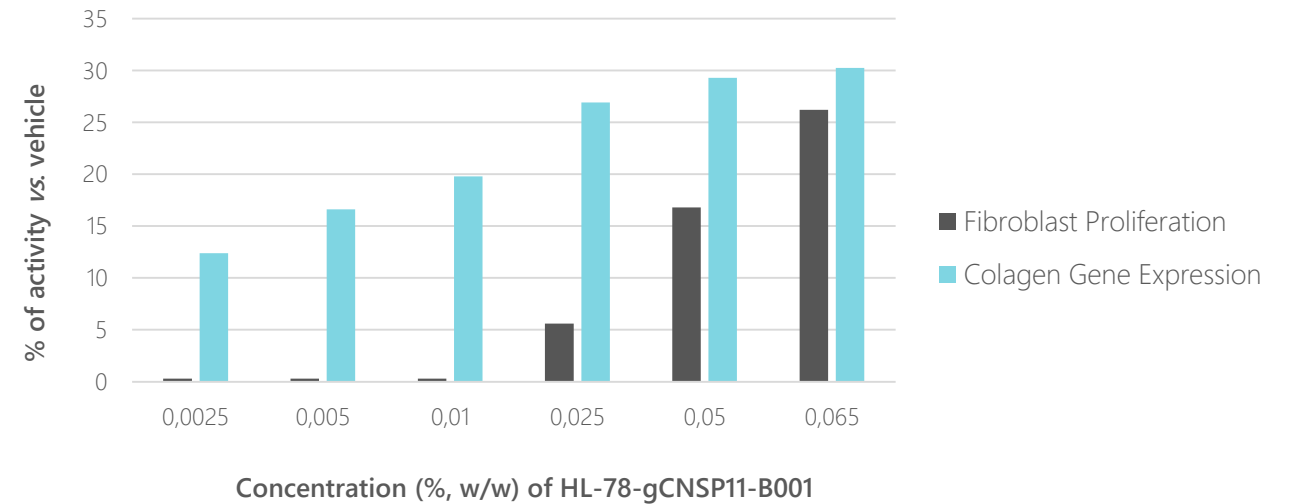
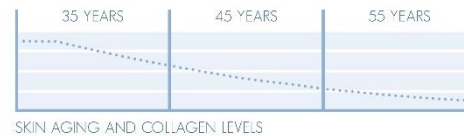
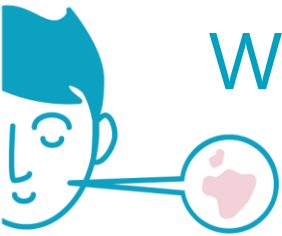


Figure 3.

Improvement of proliferation and collagen expression *in vitro* when compared with untreated control.

Whitening Extract



Control



Arbutin



AA-AQ-
SED10-016

1

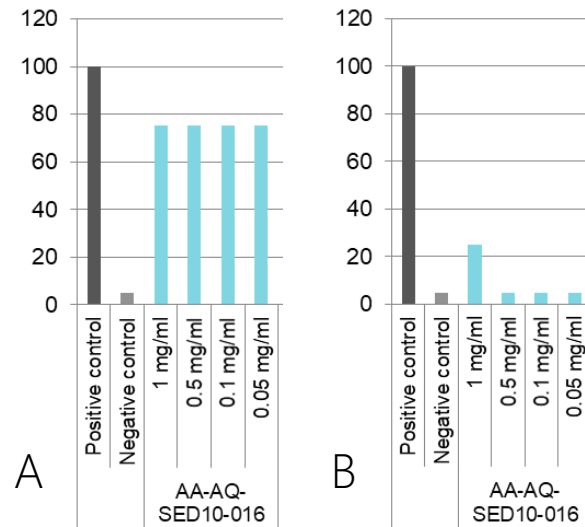


Figure 1.

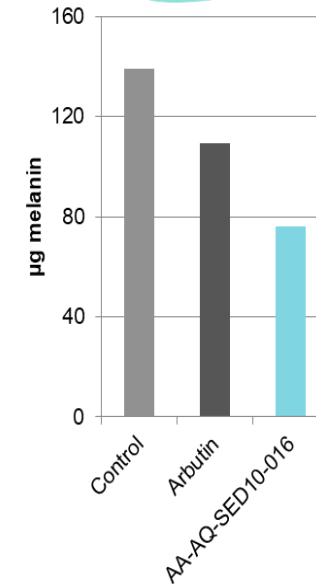
A. Whitening effect (%) on B16-F10 melanoma cells.

B. Cytotoxicity on B16-F10 melanoma cells.

Figure 2.

Melanin content (μg melanin) on reconstructed melanocyte skin model.

2





Short market life

Price

Research investment

Agricultural practices

Natural ingredients

Simple and consistent production

Easy scale-up

Sustainable



- + Product definition
- + Secondary assays
- + Scale-up in first stages
- + Efficacy tests

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THANK YOU