



AnteAGE MD®
Regenerative Science

BIOSOME™

SOLUTIONS



UNLOCK THE POWER OF BIOSOMES

The power of human rejuvenation.



FDA
MoCRA
MODERNIZATION OF
COSMETIC REGULATION ACT

FDA MOCRA #53-603116-583651
FULLY REGISTERED UNDER NEW FDA REGULATIONS AS OF JULY 2024

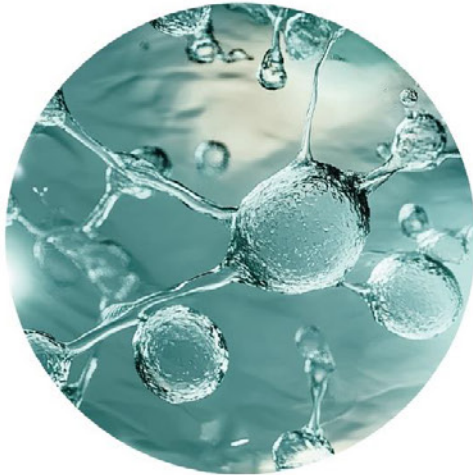
REGENERATE YOUR SKIN WITH
Game Changer BIOSOMES™



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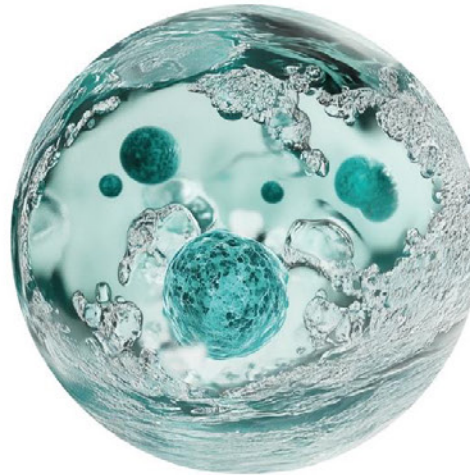
THE SCIENCE OF BIOMIMICRY



STEM CELLS

Living Cells

- Must be used fresh carefully preserved
- Found in certain tissues
- Produce "information"
- Limited therapeutic potential



EXOSOMES

Endogenous Lipid Nanoparticles

- Can be sterilized, stored and transported
- Found in every bodily fluid
- Carry regenerative information
- Vast therapeutic potential
- Non-immunogenic



BIOSOMES

Engineered Synthetic Exosome

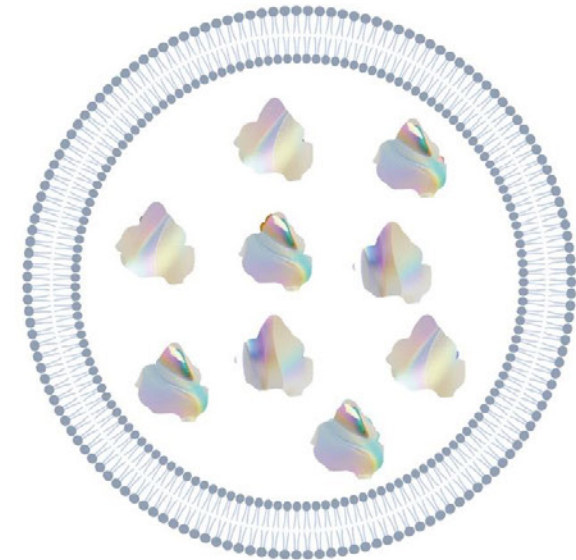
- Contain recombinant human proteins
- Non-human derived
- Specific, targeted and customizable
- Replicate the function and beneficial effects of exosomes

WHAT ARE BIOSOMES?

Introducing a state-of-the-art technology that gives you the regenerative power of exosomes, with biomimetic capabilities that are familiar to your body.

Leveraging breakthroughs in exosome science, we have crafted AnteAGE MD Biosomes™: biomimetic exosomes that deliver rejuvenative benefits without using human cells.

- Lipid Nanoparticle
- 100 NM Diameter
- Product of the Nanomanufacturing
- Recombinant Signals for Communication
- Recognized by Human Cells
- Protein / Lipid
- Influence Cellular Processes



HOW BIOSOMES WORK

Biosomes support cell-to-cell communication to help visibly improve the appearance of skin tone and texture. This novel mode of cell communication transfers messages from proteins to initiate a youthful healing response.

- Biosomes feature a lipid-rich outer layer designed to enhance absorption and skin compatibility.
- These messengers help revitalize the skin's appearance by supporting natural renewal processes.
- Significant increase in collagen and elastin
- Exosomes and Biosomes both equally stimulate cell proliferation





25 Billion
Pure
BIOSOMES™

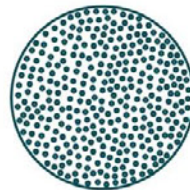
THE POWER OF BIOSOMES - PROTEINS THAT ARE RECOGNIZED BY YOUR CELLS

Built from the components found within your skin, biosomes deliver bio-active growth factors and cytokines directly to the cells which need them for improving the visible signs of ageing; reducing visible redness and encouraging your own cells to produce the extracellular matrix your skin needs to appear visibly younger. Taking everything we have learnt from AnteAGE MD human exosomes and combining it all into Biosomes.

**10x Recombinant
Proteins**



**25 Billion
Pure Biosomes**



**100nm
Diameter**



ANTEAGE® MD BIOSOME™ SOLUTION

BIOSOME SOLUTION

Biosomes – Biomimetic Exosomes

3 x 5ml Treatments

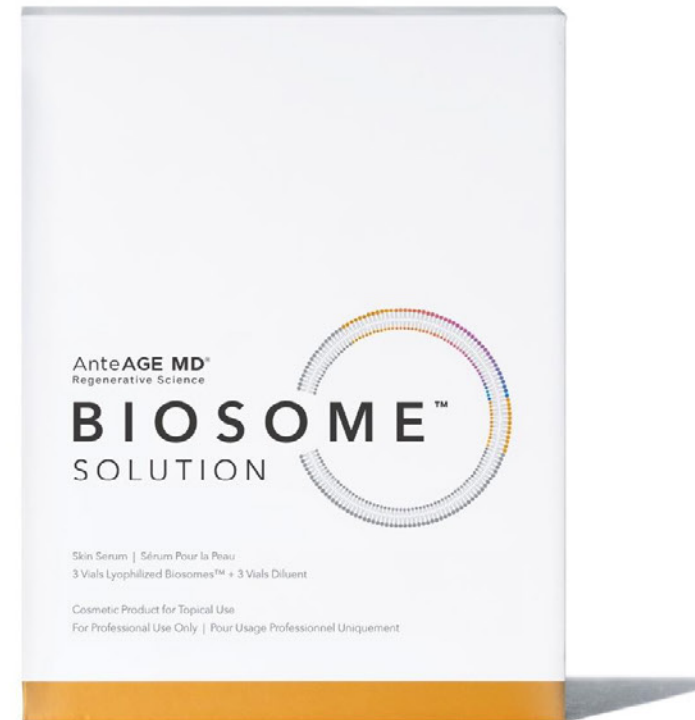
Biosomes are biomimetic exosome-inspired vesicles developed by Cellese to deliver advanced cosmetic signaling in a precisely controlled formulation. Designed to emulate the structure and function of natural exosomes, Biosomes help optimize communication between skin cells, promoting a more balanced, youthful-looking complexion. High molecular weight hyaluronic acid serves as a hydrating base for enhanced skin absorption and visible skin smoothness.

KEY INGREDIENTS

- 25B Biomimetic Exosomes
- High Molecular Weight Hyaluronic Acid

BENEFITS

- Preserve and concentrate biological signals ~500% more than GF alone.
- Equivalent activity to human exosomes, but with more manufacturing control.
- Room temperature stable, longer lasting activity.



ANTEAGE® MD BIOSOME™ SOLUTION

KEY INGREDIENTS

Lipid Bilayer

Phosphatidylcholine

A major phospholipid that mimics natural skin lipids and helps support optimal skin hydration.

Phosphatidylserine

Encourages natural skin renewal by supporting the appearance of healthy cell turnover.

Cholesterol

Enhances lipid fluidity, helping to improve skin suppleness, hydration, and elasticity.

ANTEAGE® MD BIOSOME™ SOLUTION

INGREDIENTS

Lyophilized MD Biosome Solution Vial:

Trehalose, Sodium Chloride, Disodium Phosphate, Potassium Phosphate, Potassium Chloride, Phosphatidylcholine, Phosphatidylserine, Cholesterol, Mannitol, sh-Oligopeptide-33, sh-Polypeptide-58, sh-Polypeptide-5, sh-Polypeptide-2, sh-Polypeptide-67, sh-Polypeptide-66, sh-Polypeptide-10, sh-Polypeptide-3, sh-Polypeptide-62, sh-Polypeptide-14

Diluent Vial:

Aqua (Water/Eau), Sodium Hyaluronate, Dehydroacetic Acid, Benzyl Alcohol

Key Biomimetic Growth Factors & Peptides

(Selected to support visibly healthier, more resilient skin)

TGFb3

Helps improve the look of skin firmness and elasticity.

HGF

Supports the appearance of refreshed, revitalized skin.

KGF-1

Helps maintain a smooth, even-looking skin texture.

KGF-2

Supports skin hydration and the look of a balanced epidermis.

NGF

Contributes to overall skin vibrancy and suppleness.

SIRT-1

Helps reduce visible signs of skin fatigue and stress.

SIRT-2

Supports the appearance of skin balance and clarity.

TRX

Provides antioxidant support to help combat visible environmental damage.

TIMP-1

Helps maintain skin's structural integrity and smooth appearance.

hBD3H

Supports the skin's natural barrier for a healthier-looking complexion



ANTEAGE® MD BIOSOME™ BRIGHTENING SOLUTION

BIOSOME BRIGHTENING SOLUTION

Biosomes - Biomimetic Exosome

3 x 5ml Treatments

Biomimetic Exosomes combine with Tranexamic Acid and N-A-G for elegant regeneration while preventing discoloration.

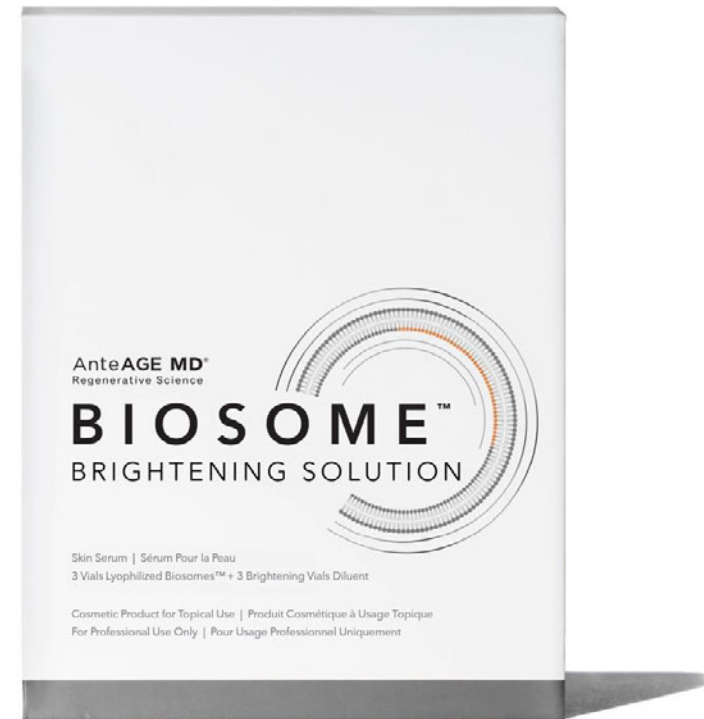
Formulated to attack eight different pigmentation pathways, our AnteAGE Biosome™ Brightening Solution is the only product on the market to effectively brighten and target discoloration at the cellular level without drying, irritation or inflammation. High molecular weight, hyaluronic acid provides lubrication and slip for your microneedling device and is a powerful humectant that promotes rapid re-hydration and volume enhancement within the upper layers of the skin.

KEY INGREDIENTS

- 25B Biomimetic Exosomes
- Tranexamic Acid 8.5%
- N-Acetyl Glucosamine
- High Molecular Weight Hyaluronic Acid

BENEFITS

- Preserve and concentrate biological signals ~500% more than GF alone.
- Equivalent activity to human exosomes, but with more manufacturing control.
- Room temperature stable, longer lasting activity.



ANTEAGE® MD BIOSOME™ BRIGHTENING SOLUTION

KEY INGREDIENTS

Tranexamic Acid 8.5%

- 8.5% Tranexamic Acid combined with the regenerative power of exosomes gives you the best opportunity for skin brightening and lifting stubborn discoloration.
- Tranexamic Acid in skin brightening works by reducing the communication/interaction between melanocytes and keratinocytes in the skin. In both uses, TX is working by interfering with communication pathways by inhibiting enzymes. TX also inhibits the enzyme tyrosinase which reduces the amount of pigment produced by melanocytes.

N-Acetyl Glucosamine

- A stable form of glucosamine with increased bioavailability that has proven to reduce melanogenes and has an even greater performance when combined with Niacinamide.

ANTEAGE® MD BIOSOME™ BRIGHTENING SOLUTION

INGREDIENTS

Lyophilized MD Biosome Brightening Solution Vial:

Trehalose, Sodium Chloride, Disodium Phosphate, Potassium Phosphate, Potassium Chloride, Phosphatidylcholine, Phosphatidylserine, Cholesterol, Mannitol, sh-Oligopeptide-33, sh-Polypeptide-58, sh-Polypeptide-5, sh-Polypeptide-2, sh-Polypeptide-67, sh-Polypeptide-66, sh-Polypeptide-10, sh-Polypeptide-3, sh-Polypeptide-62, sh-Polypeptide-14

Diluent Vial:

Water (Aqua), Tranexamic-Acid, N-Acetyl Glucosamine, Tetrapeptide-30, Nonapeptide-1, Hyaluronic Acid, Benzyl Alcohol, Dehydroacetic Acid



ANTEAGE® MD BIOSOMETM HAIR SOLUTION

BIOSOME HAIR SOLUTION

Biosomes – Biomimetic Exosome

3 x 5ml Treatments

WNT growth factors encapsulated in biomimetic exosomes are more powerful and effective. Recombinant growth factors known to activate and promote WNT signalling. A 2019 Korean study found that shikimic acid "significantly prolonged" the anagen (active) phase of the hair growth cycle. Caffeine can have multiple benefits for hair, including hair growth, reducing frizz, and improving scalp health

KEY INGREDIENTS

- WNT Biomimetic Exosomes
- Shikimic Acid
- Caffeine
- High Molecular Weight Hyaluronic Acid

BENEFITS

- Greatly enhanced WNT signaling
- Equivalent activity to human exosomes, but with more manufacturing control.
- Room temperature stable, longer lasting activity.



ANTEAGE® MD BIOSOME™ HAIR SOLUTION

KEY INGREDIENTS

WNT Specific Biosome

This highly complex formula of custom crafted exosomes are designed to specifically affect hair growth and hair quality by activating the WNT pathway.

Shikimic Acid (SA)

SA is a biochemical metabolite in plants and microorganisms. A 2019 Korean study found that SA significantly prolonged the anagen phase giving hair more opportunity to grow.

Caffeine

Caffeine is known to increase blood flow and has long been used as a stimulator for hair growth.

ANTEAGE® MD BIOSOME™ HAIR SOLUTION

INGREDIENTS

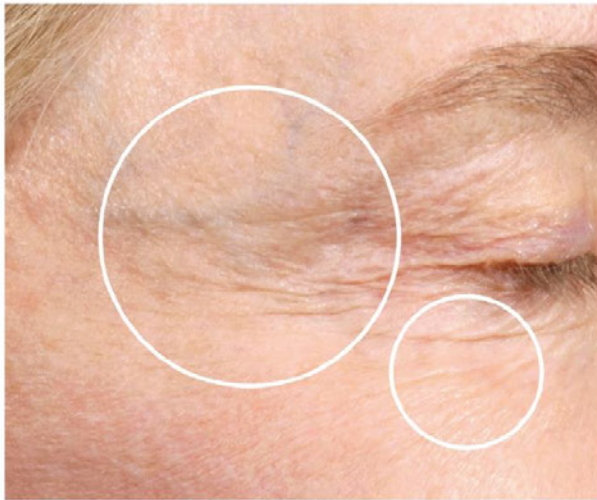
Lyophilized MD Biosome Hair Solution Vial:

Trehalose, Sodium Chloride, Shikimic Acid, Sodium Phosphate Dibasic, sr-(Decapeptide-63 sh-Polypeptide-148 Hexapeptide.40), Caffeine, Potassium Phosphate Monobasic, Potassium Chloride, Phosphatidylcholine, Phosphatidylserine, Cholesterol, Mannitol, sh-Polypeptide-62, sh-Polypeptide-3, sh-Polypeptide-10, sh-Polypeptide-5, sh-Polypeptide-sh-Oligopeptide-1, sh-Oligopeptide-2, sh-Polypeptide-8, sh-Polypeptide-9

Diluent Vial:

Water (Aqua), Sodium Hyaluronate, Dehydroacetic Acid, Benzyl Alcohol





BEFORE



AFTER

AnteAGE Biosome™

Skin Results:

1 Treatment

2 Weeks



BEFORE



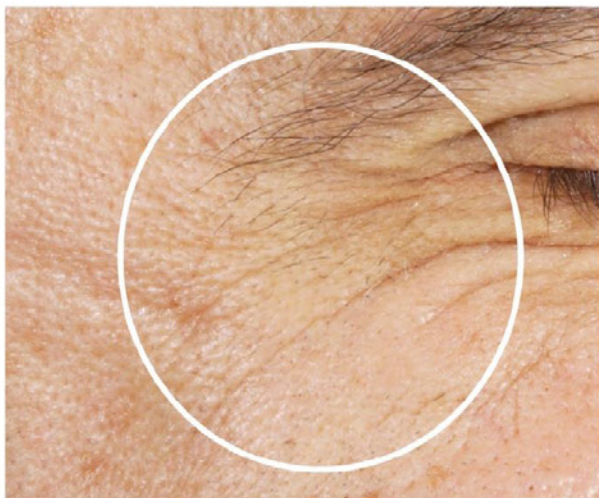
AFTER

AnteAGE Biosome™

Skin Results:

1 Treatment

1 Month



BEFORE



AFTER

AnteAGE Biosome™

Skin Results:

1 Treatment

1 Month



BEFORE



AFTER

AnteAGE Biosome™

Brightening Results:

1 Treatment

1 Month



BEFORE



AFTER

AnteAGE Biosome™

Hair Results:

2 Treatments

3 Months



BEFORE



AFTER

AnteAGE Biosome™

Hair Results:

1 Treatment

2 Weeks



BEFORE



AFTER

AnteAGE Biosome™

Hair Results:

1 Treatment

2 Weeks



BEFORE



AFTER

AnteAGE Biosome™

Hair Results:

2 Treatments

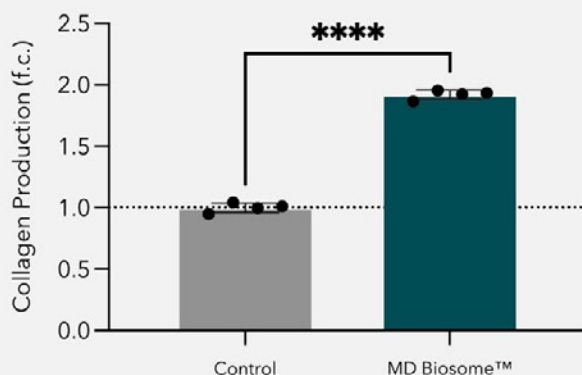
2 Months

In Application

AnteAGE® Biosome™ leverages a unique approach by combining the biosignals inspired by Bone Marrow and Umbilical Mesenchymal Stem Cell research to develop its biomimetic exosome technology. This innovative design enables the creation of a cell-free, highly consistent cosmetic solution optimized for visible skin rejuvenation. Clinical testing supports the efficacy of this formulation in improving the appearance of skin texture, tone, and vitality.

Collagen Production

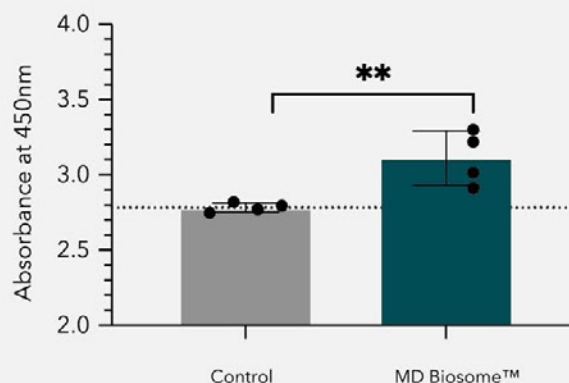
100% Increase in Collagen Production in vitro



In an *in vitro* model using human dermal fibroblasts, treatment with MD Biosome™ solutions led to a statistically significant increase in collagen secretion, with up to a 2-fold improvement over control. These results support the use of MD Biosome™ technology as a collagen-boosting active in topical formulations.

Epithelial Cell Proliferation

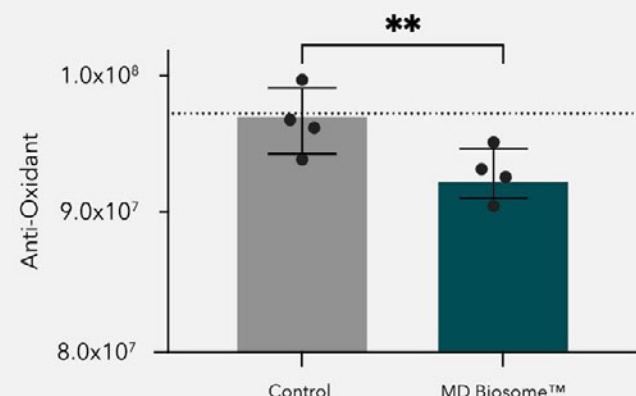
Accelerates Skin Cell Renewal for a Smoother, Healthier Complexion



Treatment with MD Biosome™ led to a statistically significant increase in epithelial cell proliferation, suggesting enhanced skin renewal potential. These findings support the role of MD Biosomes™ in promoting epidermal health, regeneration, and a more youthful skin appearance.

Anti-Oxidant Quality

Significant Reduction in Cellular Oxidative Damage *In Vitro*



In an oxidative stress model using hydrogen peroxide (H₂O₂), treatment with MD Biosome™ significantly reduced oxidative damage compared to untreated controls. This demonstrates the antioxidant potential of Biosomes in helping to protect skin cells from environmental aggressors and supporting overall cellular resilience.

CELLESE BIOSOMES LAB

Iso Class 7 Standards - Clean Room Laboratory



Compliant with US
Cosmetic Regulation
(MoCRA 2022)

AnteAGE MD®

Regenerative Science

Academic Affiliations



Made in USA

by Cellese Biological Lab with ISO 7 Class Clean Room Laboratory
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