

The logo is centered on a dark blue background with a subtle DNA double helix pattern. It is framed by several concentric circles and arcs in white and light blue. The text 'eXos' is in a large, white, elegant script font. Below it, 'SIMILDiet' is in a bold, white, serif font, and 'LABORATORIOS' is in a smaller, white, all-caps serif font.

eXos

SIMILDiet
LABORATORIOS

What are Exosomes?

Exosomes are vesicles of nanometer size (30 to 200 nanometers in diameter) that contain proteins, lipids, and genetic material such as mRNA and miRNA. They are released by different types of cells through the endosomal-liposomal pathway.

They play a fundamental role in intercellular communication, intervening in multiple biological processes as tissue healing and modulation of immune system.



EXOSOMES

- Each lyophilized vial of Simildiet *eXos* contains **15 trillion exosomes***. The exosomes are of plant origin, derived from extracts obtained from **Allium Sativum**.
- Each box of Simildiet *eXos* contains:
 - 3 vials of lyophilized Exosomes
 - 3 vials of a powerful diluent based on biomimetic peptides.
- Sterile and pyrogen-free product.

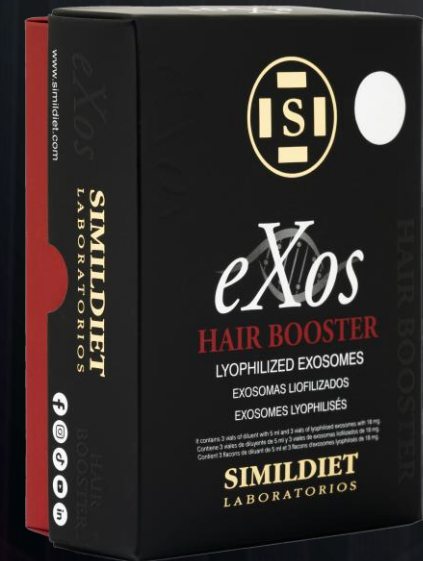


15 trillion exosomes (USA) = 15 billion exosomes (EU)

Action mechanism

- In conducted studies, it has been demonstrated that exosomes derived from *Allium sativum* produce a significant increase in the count of hair follicles in the anagen phase, reaching up to 105.71% higher than that of the control group.

- Additionally, a notable increase was observed in the activation of the Wnt/beta-catenin signaling pathway, which is involved in the induction of the anagen phase and hair regeneration, as well as an increase in hair diameter.



Active ingredients

EXOSOMES



Active ingredients of the lyophilized vial:

- ✓ ***Allium sativum*** contains sulfur compounds (DADS, DATS, alliin), vitamins, amino acids, and minerals such as potassium, zinc, sulfur, and selenium, with anti-inflammatory, immunomodulatory, and antioxidant properties.
- ✓ It is **useful in the treatment of alopecia areata and androgenic alopecia** by inhibiting the enzyme 5 α -reductase and reducing the levels of interferon gamma and interleukin-6, according to in vitro studies.
- ✓ ***Allium sativum*** compounds suppress the NF- κ B and MAPK pathways, reducing inflammation and promoting the formation of epidermal placodes through NF- κ B inhibition, which supports hair development.

Active ingredients of the diluent vial:



- ✓ **Hyaluronic Acid.**
- ✓ **3 types of Biomimetic Peptides:** Apigenin + Biotinoyl Tripeptide-1, Octapeptide-2, Oligopeptide-20.
- ✓ Plant extracts from ***Ginkgo biloba*, *Curcuma longa*, and *Chamomilla recutita*.**
- ✓ **Vitamins, minerals, and amino acids:** Biotin, Glutamine, Phytic Acid, Succinic Acid, Troxerutin, Taurine, Thiamine, Proline, Panthenol, Calcium, and Magnesium.

ACTIVE INGREDIENTS	EFFECT ON HAIR
Sodium Hyaluronate (Hyaluronic Acid)	Maintains tissue hydration and elasticity, preventing deterioration and promoting the production of collagen and elastin to maintain hair health.
Biomimetic Peptides (Apigenin + Biotinoyl Tripeptide-1, Octapeptide-2, Oligopeptide-20)	Protects and repairs the hair follicle, improves microcirculation in the scalp, prevents follicle atrophy and aging, accelerates hair growth, and strengthens the hair.
● Plant extracts (<i>Ginkgo biloba</i> , <i>Curcuma longa</i> , <i>Chamomilla recutita</i>)	<i>Ginkgo biloba</i> reduces capillary permeability, improves collagen synthesis, and protects against hypoxia; turmeric stimulates hair density and growth, extends the Anagen phase, and regenerates the follicle; chamomile strengthens blood capillaries, with a calming and anti-inflammatory effect.
Glucosamine and DNA	Both act as collagen regenerators and cellular restorers, stimulating the repair of damaged tissues and promoting healing and regeneration processes.

ACTIVE INGREDIENTS	EFFECT ON HAIR
Vitamins, minerals, and amino acids (Biotin, Glutamine, Phytic Acid, Succinic Acid, Troxerutin)	Biotin is essential for hair health, glutamine promotes hair regeneration, phytic and succinic acids have antioxidant properties, and troxerutin protects capillaries and improves oxygenation of the hair bulb.
Taurine, Thiamine, Proline, Panthenol, Calcium, and Magnesium	Taurine protects cells from oxidative stress and improves scalp hydration, while thiamine (vitamin B1) is essential for energy metabolism and hair growth. Proline strengthens collagen and promotes the healing of scalp tissues, and panthenol (vitamin B5), along with calcium and magnesium , enhances hydration, follicle health, and blood circulation, thus promoting hair growth.

Bibliographic Reference:

- Yuksel, E. I., Cicek, D., Demir, B., Sahin, K., Tuzcu, M., Orhan, C., Ozercan, I. H., Sahin, F., Kocak, P., & Yildirim, M. (2023). Garlic exosomes promote hair growth through the Wnt/ β -catenin pathway and growth factors. *Cureus*, 15(7), e42142. <https://doi.org/10.7759/cureus.42142>
Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10438139/>

EXOSOMES



PROTOCOL:

For optimal hair results, it is recommended to use 2 ml per session.

One session every 7–10 days.

The total number of sessions will depend on the diagnosis and the progress of the treatment.

PRESERVATION:

Once reconstituted, it is recommended to keep refrigerated for up to a maximum of 15 days.

Reconstitute EXOSOMES



We will load the entire content of the diluent vial (transparent vial).



We introduce the diluent liquid fully into the exosome lyophilized vial (topaz vial).



We introduce the diluent liquid fully into the exosome lyophilized vial (topaz vial).



Now, it is ready for use in our treatment.

