

Heliasome™

Heliasome is a powerful natural ingredient, derived from Sunflower Stem Cells to support the natural look and feel of hair.

INCI
Helianthus Annuus
Callus Culture Extract

1-5%

Usage level

- Mild scent
- Plant based
- Water soluble
- 100% natural
- Vegan
- Made in the USA
- cGMP-produced



Heliasome™ is a proprietary lysate derived from the stem cells of *Helianthus annuus* (sunflower). Rich in follicle-supportive metabolites, essential fatty acids, vitamins, and antioxidant compounds, Heliasome™ supports scalp balance, follicle vitality, and stronger, fuller-looking hair.

Using metabolomics profiling and advanced analytical techniques, the **Heliasome™** bioactive profile reveals numerous compounds associated with hair growth support, scalp barrier integrity, and protection against environmental stressors.

Traditional Ingredients: Minoxidil, Caffeine, Biotin, Saw Palmetto Extract, Copper Peptides, Procyanidin B2

Typical Performance Profile: Hair growth ingredients traditionally act through follicle stimulation, circulation enhancement, or nutrient support.

Heliasome Positioning: Heliasome contains metabolites including linoleic acid, phytosphingosine, and azelaic acid derivatives associated with scalp barrier support and follicle environment balance.

Heliasome natural hair supporting metabolites*

Adenosine

Stimulates hair follicle activity and extends the growth phase (anagen), helping hair appear thicker and fuller.

Caffeine

Energizes hair follicles and helps defend against growth-disrupting factors, promoting stronger, more resilient hair that can grow longer over time.

Biotin

A vital nutrient that fuels keratin production — the protein that builds strong, healthy hair — helping reduce breakage and support thicker-looking strands, especially when dietary levels are low.

Linoleic Acid

An essential fatty acid that nourishes the scalp and supports healthy follicle structure, helping maintain optimal conditions for strong, vibrant hair growth.

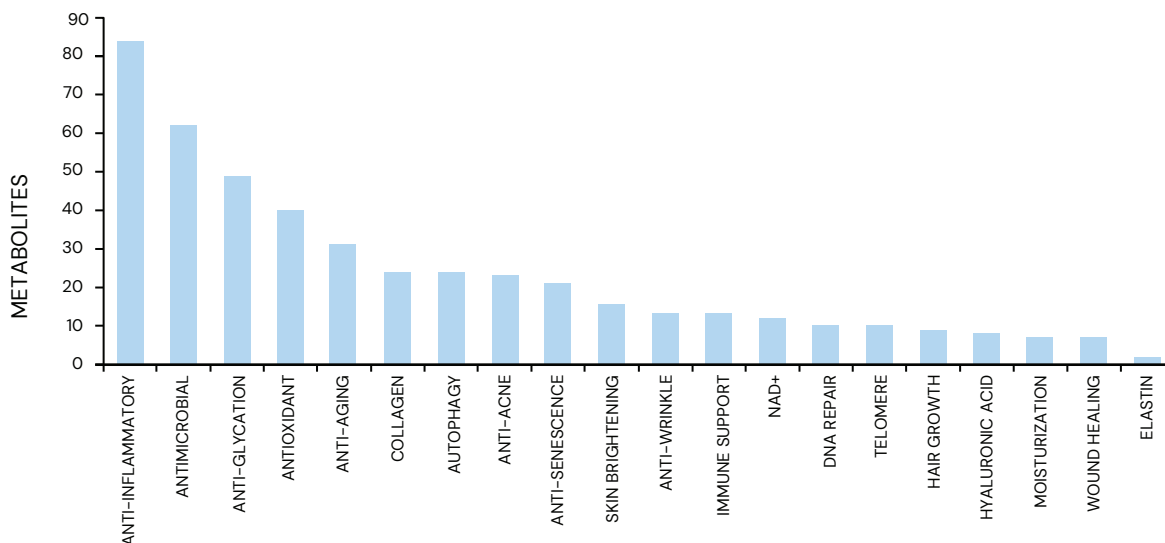
Vitamin C

A powerhouse antioxidant that boosts collagen support around the follicle and shields hair from free-radical damage, helping maintain growth, strength, and shine.

Cholesterol

A natural building block that helps maintain healthy cell membranes within the hair follicle, supporting balanced growth cycles and overall hair vitality.

Heliasome Natural Beneficial Metabolites*



Metabolites in Heliasome were identified by LC-MS/MS and annotated based on scientific publications.

Linoleic Acid (ω -6 fatty acid)

Primary Actions: Linoleic Acid is known for barrier repair + anti-inflammatory + follicular lipid regulation

Linoleic Acid Mode of Action:

- Restores scalp barrier lipids → reduces micro-inflammation that contributes to miniaturization
- Reduces inflammatory cytokines in the follicular microenvironment
- May inhibit 5- α -reductase activity (weak evidence)
- Supports healthy sebum composition (low linoleic acid is associated with follicular hyperkeratinization)

Hair Cycle Impact: Supports anagen maintenance indirectly by reducing inflammatory stress around follicles.

Adenosine

Primary Actions: Dermal papilla stimulation + growth factor signaling

Adenosine Mode of Action:

- Activates A2A adenosine receptors in dermal papilla cells
- Upregulates VEGF → improves perifollicular blood supply
- Stimulates expression of growth factors (FGF-7, IGF-1)
- Promotes proliferation of hair matrix keratinocytes

Hair Cycle Impact: Promotes transition into and prolongation of the anagen phase. (Clinically studied in androgenetic alopecia.)