



Gatuline® RC Bio

Source of youth



People make our name

A natural, vegetable active



As we age, our skin loses its energy and looks tired. Restoring the state of the skin requires a multi-targeted approach.

Gatuline® RC BIO is a multi-pronged approach to skin aging. Sourced from beech tree buds, this ingredient stimulates cell oxygen consumption and increases skin hydration for a healthier and younger look.

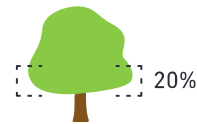
Gatuline® RC is developed through a nature-friendly process, from harvesting to extraction.

A high content in functional molecules

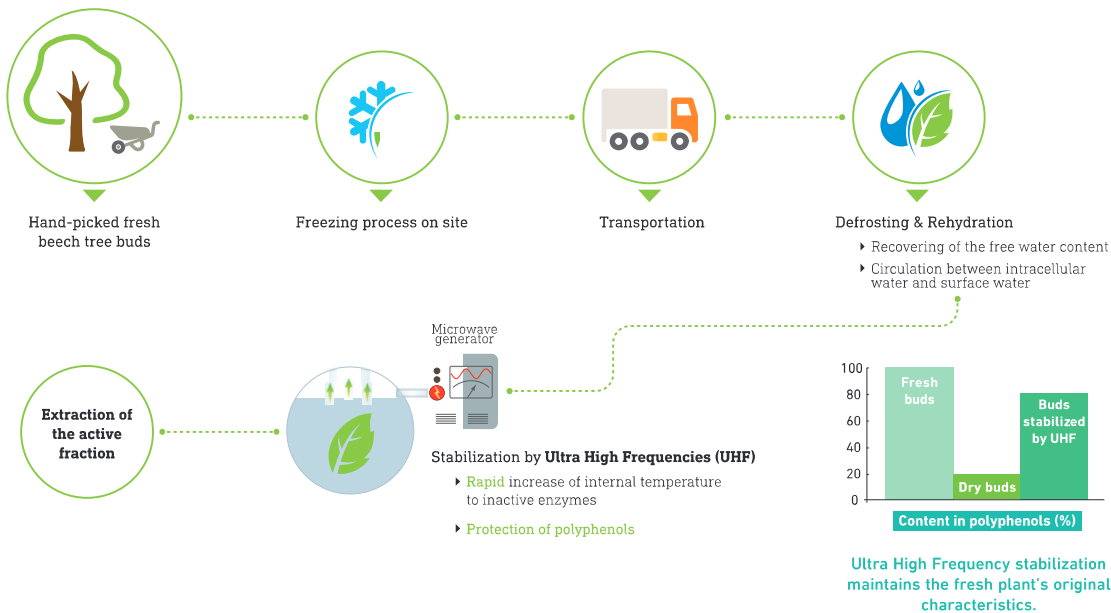
- + Polyphenols (flavonoids and phenolic acids)
- + More than 17 amino acids
- + Mineral salts

A responsible sourcing

Buds are hand-picked on the lower branches to avoid any damage to future development of the tree and respect its natural balance.



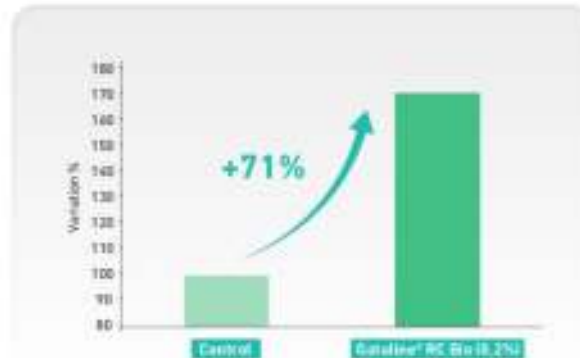
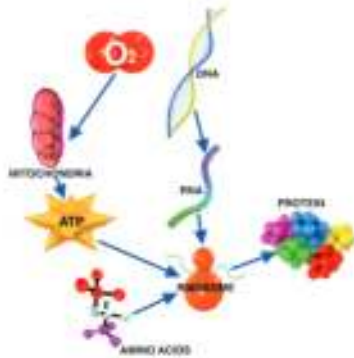
A unique extraction process using Ultra High Frequencies



Energizing boost

Improvement of oxygen consumption

Oxygen, coming from the atmosphere, is absorbed by the cells. It goes to the mitochondria where it undergoes several reactions that finally create ATP which is the main energy source of the cells. The effect of Gatuline® RC Bio on cell oxygen consumption was measured using oxygraphy techniques.

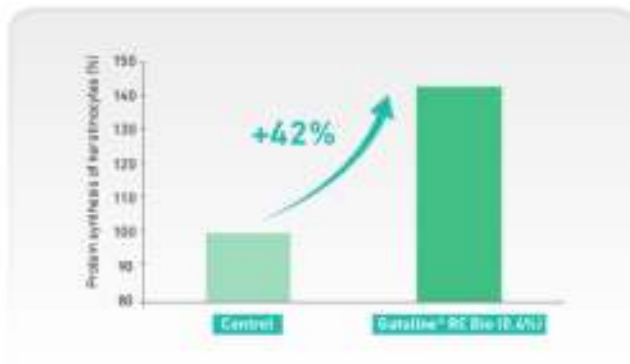


Gatuline® RC Bio improves oxygen consumption by 71%, thus increasing intracellular energy stock and improving cell metabolism.

Protein synthesis increase

The more oxygen is available, the more ATP is created, and the more proteins are synthesized. These new proteins synthesized include major skin constituents such as keratin, filaggrin, collagen and elastin.

The effect of Gatuline® RC Bio was studied in a keratinocyte cell culture model. Protein synthesis was measured using radio-labelled amino acids.



Gatuline® RC Bio increases keratinocyte protein synthesis by 42%, leading to the improvement of skin architecture and quality.

Skin benefits

Providing oxygen and thus energy to the cells leads to a better skin organization, with a reinforced barrier function and an optimal renewal of its constituents. The skin looks visibly younger, smoother and well hydrated.

These benefits have been demonstrated *in vivo*.

Moisturizing boost

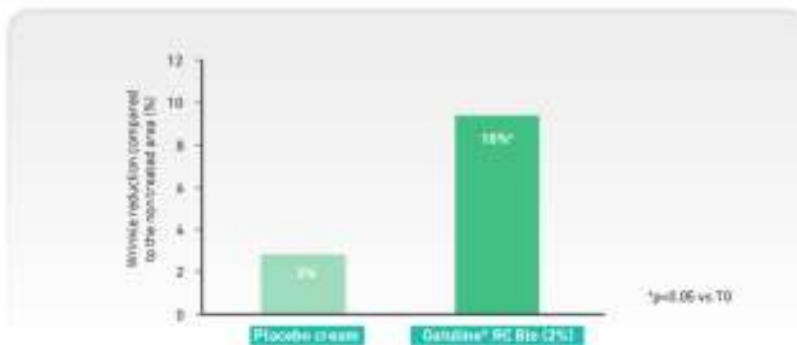
Cutaneous moisturization was assessed with a corneometer, at the beginning of the clinical study⁽¹⁾ and 12 hours after the last application.



Gatuline® RC Bio improves skin moisturization by 30%.

Skin smoothness

Cutaneous microrelief was evaluated using image analysis (skin prints), at the beginning of the clinical study⁽¹⁾ and 12 hours after the last application.



Gatuline® RC Bio reduces fine lines depth by 10% and improves skin microrelief.

⁽¹⁾ 20 volunteers, 28 days. Twice application of a cream containing 2% Gatuline® RC Bio vs placebo.



Gatuline[®] RC Bio

is sourced from the buds of the beech tree (*Fagus sylvatica*), also called the "forever young" tree because it reaches maturity at 60 and can live up to 250 years. Buds have been chosen for their high concentration in polyphenols, amino acids and other primary metabolites, bringing energizing potential to this certified natural active.

Gemmotherapy is based on taking advantages of the high potential active molecules hidden in the buds. These are the embryos of the plant life and contain highly energetic substances which stimulate cellular metabolism and result in the transformation from dormant stage to bloom.

Gattefossé has chosen to translate gemmotherapy into a cosmetic ingredient in order to wake up and revitalize skin cells.

Claims

- Stimulates cell oxygen consumption
- Reinforces epidermal architecture
- Increases the skin hydration level
- Reduces fine lines depth

Applications

- Moisturizers (body and face)
- Energizing treatments
- Anti-aging solutions

Use level

2-5%

Other grades available

- Gatuline[®] RC
- Gatuline[®] RP (paraben-free)

INCI: Water (and) Fagus Sylvatica Bud Extract

Worldwide approval for cosmetic applications

Listed on IECIC (Inventory of Existing Cosmetic Ingredients in China) 2015

ECOCERT⁽²⁾ and COSMOS⁽³⁾ certified, NSF validated and NPA[™] certified

⁽²⁾ The product has been certified by Ecocert Greenlife according to the Ecocert Natural and Organic Cosmetics Standard

⁽³⁾ The product has been certified by Ecocert Greenlife according to the COSMOS-standard of Organic and Natural cosmetics

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GATLINE® RC BIO-66-NUBGZ (5742BE)

www.gattefosse.com



Corporate Headquarters

36 chemin de Genas - CS 70070 - 69804 Saint-Priest Cedex - **France**
+(33) 4 72 22 98 00

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