

#### Technical specifications

##### • *Provislim 72510*

<b>PROPERTIES</b>	Active ingredient with adaptative effect resulting from the combination of two extremely pure molecules from natural origin. Decreases locally accumulated fat in all circumstances: at rest, during exercise or stress, after eating and in general. Reduces orange peel and cellulite skin effects, minimizing triglyceride storage. Formulated with sustainable solvents.
<b>ACTIVE MOLECULES</b>	Fisetin Frambinone
<b>APPEARANCE</b>	Transparent liquid Grey-brown color
<b>SOLUBILITY</b>	Soluble in hydroglycolic solutions
<b>RECOMMENDED DOSE</b>	2-5%

#### Formulation

##### • *Non-stop anti-cellulite treatment*

	INCI / PCPC	% (w/w)
A	Aqua (Water)	66.73
	Propanediol	2.00
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.25
	Tetrasodium Glutamate Diacetate, Sodium Hydroxide, Aqua (Water)	0.20
	<b>Vine Eco</b>	1.00
	Caprylyl Glycol, Caprylhydroxamic Acid, Glycerin	0.30
	Polyacrylate-14	1.50
B	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.20
	Dimethicone, Cetearyl Dimethicone Crosspolymer	5.00
	<b>Hibiscus Oil</b>	1.00
	Tocopheryl Acetate	0.50
C	<b>Lemon Oil</b>	1.00
	Polysorbate 20	0.50
D	Parfum (Fragrance)	0.20
	Alcohol Denat.	15.00
	<b>PROVSLIM™</b>	<b>3.00</b>
E	Aqua (Water), Sodium Hydroxide	0.60
F	Polyacrylate-13, Polyisobutene, Polysorbate 20	1.00
G	CI 19140, CI 42090	0.02

#### Cosmetic applications

- Cellulite prevention and treatment
- Slimming and modeling products
- Sport & cosmetic modeling products
- Complementary ingredient in hydrating, firming and sun tanning corporal products

*Provislim™*

The ultimate solution in anti-cellulite: multi-active ingredient that works in any situation

*Body sculpture*

# PROVISLIM™

## THE ULTIMATE SOLUTION IN ANTI-CELLULITE: MULTI-ACTIVE INGREDIENT THAT WORKS IN ANY SITUATION

8 out of 10 women suffer from cellulite.

Sedentary lifestyle, genetic inheritance and an inadequate caloric balance cause the storage of energy in the form of triglycerides. This fat reserve is unsightly gathered, originating cellulite.

Provislim™, an active ingredient with adaptative effect

Diminishes fat deposits in all circumstances:

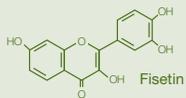
- during exercise
- at rest
- after eating

24/7 Action

Provislim™ is the combination of two extremely pure active ingredients from natural origin: fisetin + frambinone, which coordinately act against localized fat.

### Fisetin

- Natural flavonoid, extremely pure
- Present in fruits (strawberry) and vegetables
- Exclusive anti-cellulite active pathway for Provitall, SA: inhibits the phosphorylation of the phosphatidylinositol 3-kinase (key enzyme for the influx of glucose into the cell), **diminishing lipogenesis after eating**
- Facilitates lipolysis
- Activates sirtuins, proteins which redefine silhouette and reduce fatty tissue
- Anti-inflammatory and antioxidant



Activates triglycerides degradation at rest (basal lipolysis)



Enhances lipolysis induced by adrenalin (exercise or stress)



Inhibits triglycerides formation (lipogenesis) after food intake

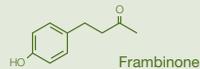


Inhibits differentiation to mature adipocytes (adipogenesis), as a global preventive effect



### Frambinone

- Phenolic compound from natural origin, remarkably pure
- Responsible for the aroma of several fruits (raspberry)
- Increases basal lipolysis (at rest) and the expression of adiponectin, protein of the lipidic metabolism
- Raises lipolysis induced by catecholamines during exercise
- Potentiates fatty acid catabolism and prevents overweight
- Increases skin elasticity



### In vitro test

Provislim™ effects were analyzed on human subcutaneous adipocytes.

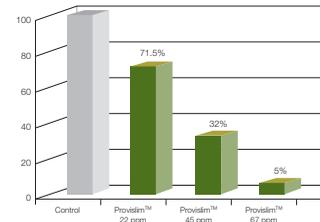
Several processes were evaluated: basal lipolysis, adrenalin-induced lipolysis (in presence of the actives and adrenalin) and the anti-lipogenesis effect after eating (a labeled glucose derivative was quantified, in presence of the actives and insulin).

The prevention of adipogenesis was also measured: the number of total triglycerides was quantified and an Oil red O dye was used to visualize them.

### In vitro results

- 57% increase of basal lipolysis
- 36% enhancement of lipolysis induced by adrenalin
- 96.3% lipogenesis reduction after eating
- 95% decrease of pre-adipocyte differentiation

### Differentiation to adipocyte (%)

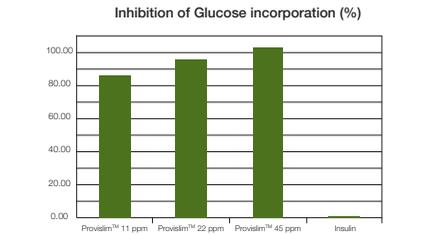
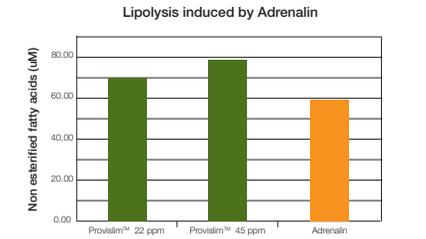


### In vivo test

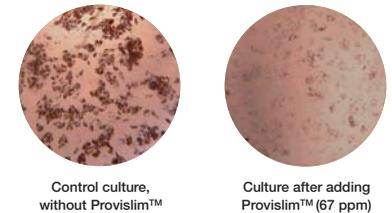
- 15 volunteers with cellulite
- Active formula (5% Provislim™) on one leg and placebo on the other

### In vivo results vs placebo

- Centimeter reduction: 0.3 cm average up to 1 cm
- Skin thickness:
  - 0.03 mm average decrease
  - 0.07 mm maximum decrease
  - Diminution in 93% volunteers
  - Redensification and decrease of dermal infiltrations



### Oil red O images



- Two daily applications, 56 days
- Measurements at D0 and D56: centimeter reduction and skin thickness, roughness (average and maximum) and elasticity

- Reduction of average roughness: 4.6% average value 39.5% maximum result
- Reduction of maximum roughness: 3.7% average value 28.7% maximum result
- Elasticity improvement: 13% average increase 48% maximum increase