

BIOGRÜNDL, S.L.
POLÍGONO LES FALLULLES, NAVE 34 -SECTOR 2-
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TECHNICAL DATA SHEET

BODY FIRMING COMPLEX **/ A / HGL / CA11 /**



Trade Name: BODY FIRMING COMPLEX / A / HGL / CA11 /.

Product Code: CRCOAHGLC11.

INCI Name: AQUA, GLYCERIN, FAEX EXTRACT, HYDROLYZED ELASTIN, HAMAMELIS VIRGINIANA LEAF EXTRACT, POTASSIUM SORBATE.

INCI Status: Conforms.

REACH Status: Low Volume Exemption.

CAS Number: 7732-18-5; 56-81-5; 8013-01-2; 91080-18-1; 84696-19-5; 24634-61-5/ 590-00-1.

EC Number: 231-791-2; 200-289-5; 232-387-9; 293-509-4; 283-637-9; 246-376-1.

Origin: GLYCERIN: Vegetable origin.

FAEX EXTRACT, HAMAMELIS VIRGINIANA LEAF EXTRACT: Vegetable origin.

HYDROLYZED ELASTIN: Animal origin.

POTASSIUM SORBATE: Synthetic origin.

Processing: GMO Free. / No Ethoxylation. / No Irradiation. / No Sulphonation. / No BSE/TSE. / No CMR. / No SVHC. / No Nanomaterial. / No DEG. / No DEHP. / No Formaldehyde. / No Phthalates. /

Additives: Preservatives: Potassium sorbate. Paraben Free. / Antioxidants: None. / Other additives: None.

Solvents Used: Water and glycerin.

Appearance: Clear or slightly opalescent liquid.

Colour: Characteristic (yellowish to deep brown).

Odour: Characteristic.

Specific gravity: 1,050 - 1,300 g/cm³ (20°C approx.).

Direct pH value: 4,5 - 6,5 (20°C approx.).

Soluble/ Miscible: Water. Surfactants. Hydroalcoholic, hydroglyceric and hydroglycolic mixtures.

Ecological Information: Sustainable.

Microbial Count: **Total aerobics:** Max. 300 microorganisms / gram.

Fungi and yeasts: Max. 200 microorganisms / gram.

Pathogens: Total absence in 1 gram.

Suggested Use Levels: 2,0 – 10,0%.

Suggested Applications: Body modeling and massage treatments. Flabby zones firming treatment.

Properties: Body firming.

Industrial packing: 1Kg., 5Kg., 25Kg., 225Kg.

Storage conditions: It is very important to keep the product in well closed containers, away from direct sunlight at temperatures not over 15°C. In case of not having refrigerators, store the product in the coolest and free from artificial light area.

Bibliography: - Atlas Ilustrado de Plantas Medicinales y Curativas, Ed. Susaeta.

- Dumont's grosse Kräuter Enzyklopädie.

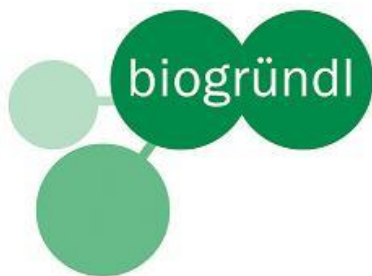
- Fitocosmeticos ALVAREZ CRUZ i BAGUE SERRANO.

- Gran enciclopedia de las plantas medicinales, BERDONCES i SERRA.

- Plantas medicinales, FONT i QUER.

- Proserpio G., Martelli A., Patri GF.; Elementi di Fitocosmeci; Ed. Sepem / Milano 1983.

- Websites.



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OVERVIEW

BODY FIRMING COMPLEX by BIOGRÜNDL, S.L. is a concentrate of vitamins, vegetable extracts and proteins, specially designed for body modeling, massage treatments and firming treatments of flabby zones.

BODY FIRMING COMPLEX by BIOGRÜNDL, S.L. is a synergistic blend of hydrolyzed elastin, which increases the elasticity of skin tissues; yeast extract, rich in vitamins of B group, as well as, other bioactive substances that increase, notably, the metabolism of the skin; and extract of witch hazel with recognized astringent and firming properties.

USE AND DOSAGE

If turbidity is observed, it is advisable to previously dissolve the product in a portion of the water provided to manufacture the final product and filter after 12-24 hours.

The recommended concentrations of use are between 2% and 10%. For very special effects the dosage can raise up to 15%.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear or slightly opalescent liquid.

Colour: Characteristic (yellowish to deep brown).

Odour: Characteristic.

Direct pH value: 4,5 - 6,5 (20°C approx.).

Specific gravity: 1,050 - 1,300 g/cm³ (20°C approx.).

Solubility in water: Fully soluble (20°C approx.).

Solubility in other solvents: Insoluble in organic solvents and lipids. Soluble in surfactants, hydroalcoholic, hydroglyceric and hydroglycolic mixtures.

Heavy metals: No more than 5 mg/Kg.

Sulfated ash: No more than 0,01%.

Chlorides: No more than 0,007%.

Sulfates: No more than 0,002%.

Other information: None.

Total aerobics: Max. 300 microorganisms / gram.

Fungi and yeasts: Max. 200 microorganisms / gram.

Pathogens: Total absence in 1 gram.



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DERMATOLOGY INNOCUOUSNESS

It was performed by the patch test (Patch test) on 10 volunteers. To this purpose, 15% BODY FIRMING COMPLEX by BIOGRÜNDL, S.L., was added to an O/W emulsion; 0,5g. of this emulsion was poured over the patch and attached on the forearm. It is thus maintained for 24, 48 and 72 hours, after which, the given reaction was evaluated, according to the following table of values:

1. No erythema.
2. Slight erythema.
3. Well defined erythema.
4. Severe erythema.

The result was absence of erythema on the 10 volunteers.

On the recommended concentrations, the product is skin innocuous.

STORAGE CONDITIONS

It is very important to keep the product in well closed containers, away from direct sunlight at temperatures not over 15°C. In case of not having refrigerators, store the product in the coolest and free from artificial light area.

INCI DENOMINATION

AQUA, GLYCERIN, FAEX EXTRACT, HYDROLYZED ELASTIN, HAMAMELIS VIRGINIANA LEAF EXTRACT, POTASSIUM SORBATE.

EFFECTIVENESS TESTS

Assay: Double blind spot trial and subsequent cosmetic evaluation.

Assayed parameters: anti-flaccidity action.

N (volunteers): 30 (15 ♀ and 15 ♂).

Age (volunteers): 30 - 60 years old.

Left side part to be treated:

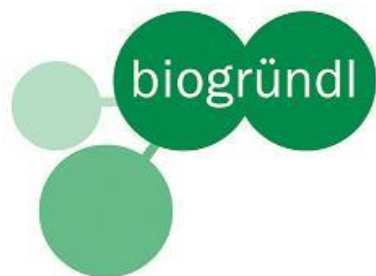
Placebo, 30 volunteers, suitable cosmetic base.

Right side part to be treated:

BODY FIRMING COMPLEX EXTRACT 2%, 15 volunteers, suitable cosmetic base.

Right side part to be treated:

BODY FIRMING COMPLEX EXTRACT 5%, 15 volunteers, suitable cosmetic base.

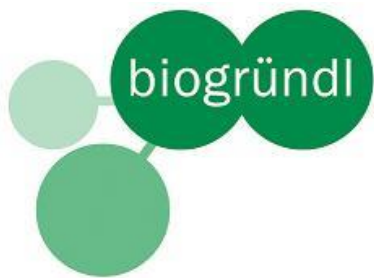


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Assayed parameters:

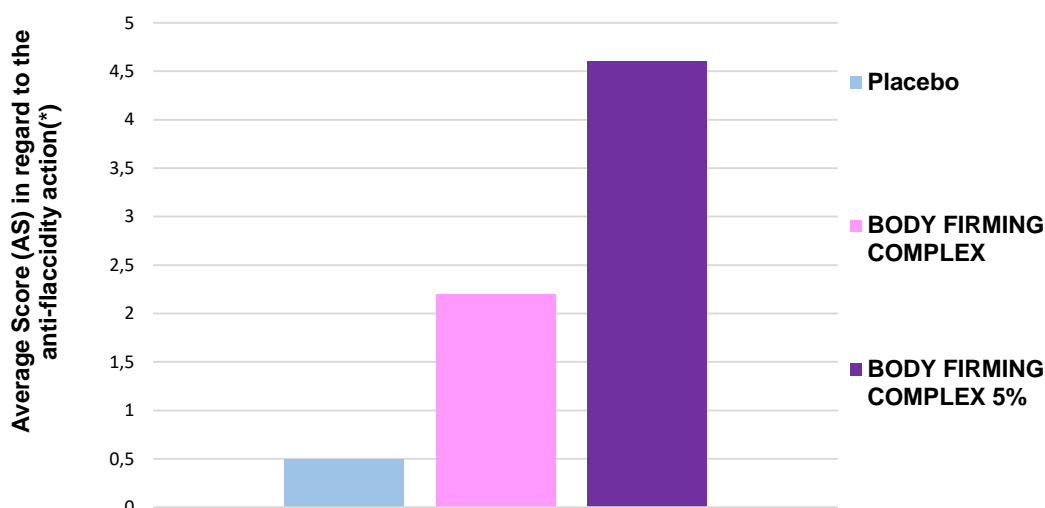
	Assay	N (volunteers)	Age (volunteers)	Placebo	EXTRACT 2%	EXTRACT 5%	Assay performed (Days)	Results measured (Days)
Anti-flaccidity action	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 15 ♀ 15 ♂	30 - 60	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 1



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STATE OF THE SKIN EVALUATION AFTER 30 DAYS



(*) The anti-flaccid action was determined by direct measurement with a cutometer of the level of flaccidity of the treated body part (abdomen) of the volunteers.

Total number of days in which the assay was performed (treatment was applied):

D = 30 days (every day during the effectiveness test).

Total number of days in which the results were measured:

D' = 1 days (last day of the effectiveness test).

Average Score:

Worst result: Zero limit value is assigned.

Best result: Five limit value is assigned.

Score is assigned to obtained results between the two limit values.

Average computation for each obtained results group is done:

Placebo, 2% BODY FIRMING COMPLEX by BIOGRÜNDL, S.L., 5% BODY FIRMING COMPLEX by BIOGRÜNDL, S.L.

Results meaning:

AS rank between 0 – 1: No significant changes.

AS rank between 1 – 2: Slight improvement regarding placebo.

AS rank between 2 – 3: Appreciable improvement regarding placebo.

AS rank between 3 – 4: Great improvement regarding placebo.

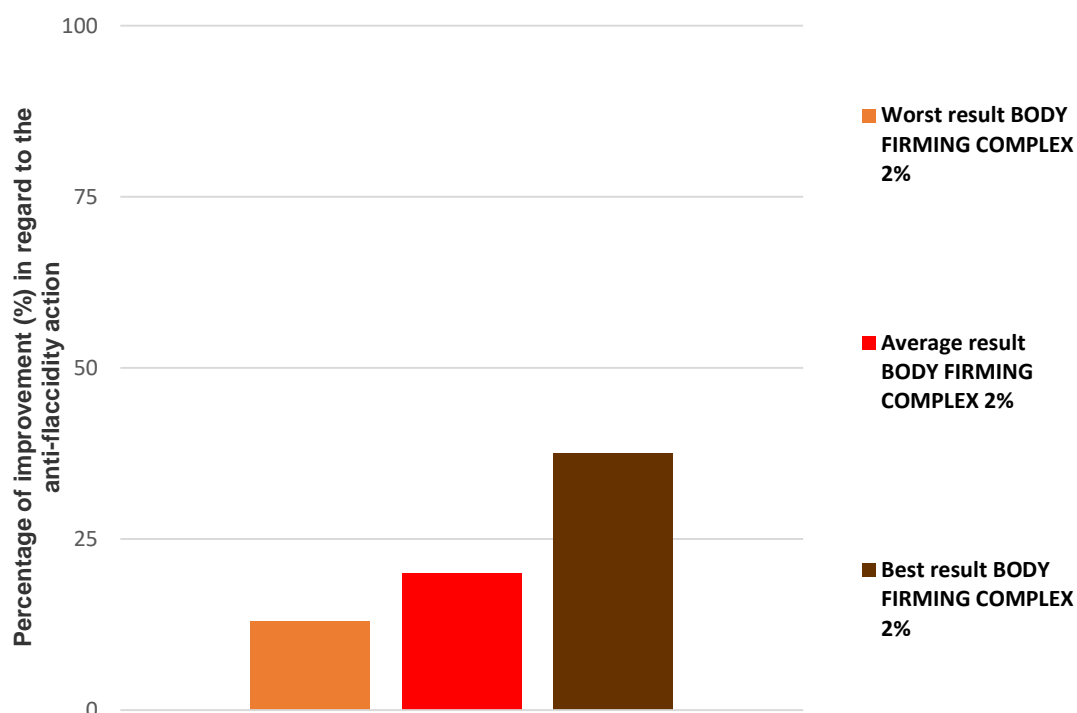
AS rank between 4 – 5: Excellent cosmetic result.



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BODY FIRMING COMPLEX 2%



Results:

Worst result BODY FIRMING COMPLEX 2%: 13%.
Average result BODY FIRMING COMPLEX 2%: 20%.
Best result BODY FIRMING COMPLEX 2%: 37.5%.

Results meaning:

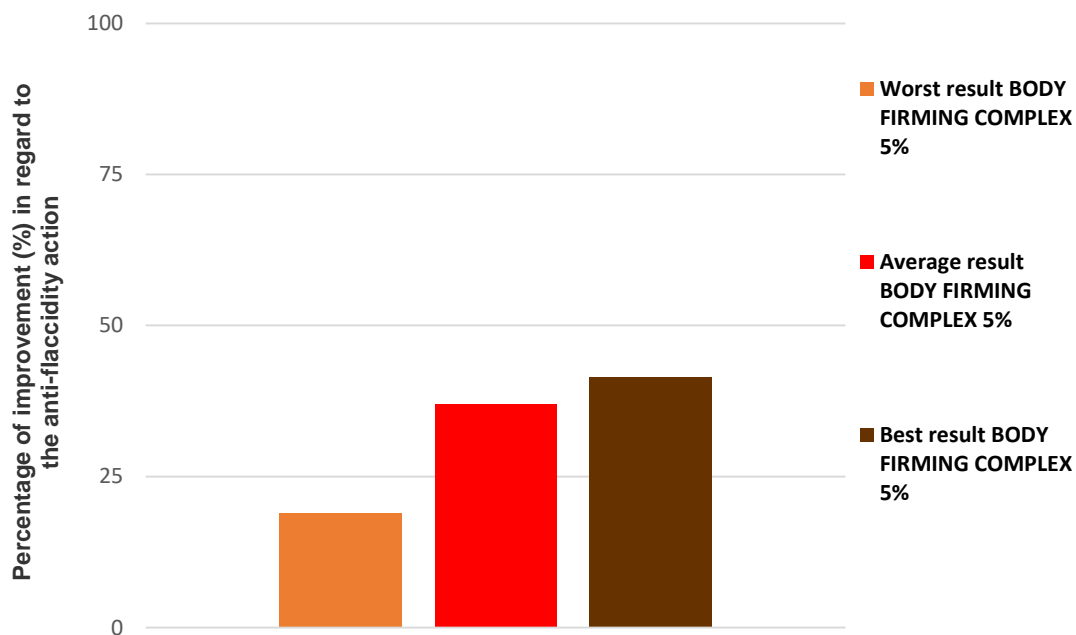
AS rank between <20%: No significant changes.
AS rank between 21 – 40%: Slight improvement regarding placebo.
AS rank between 41 – 60%: Appreciable improvement regarding placebo.
AS rank between 61 – 80%: Great improvement regarding placebo.
AS rank between >81%: Excellent cosmetic result.



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BODY FIRMING COMPLEX 5%



Results:

Worst result BODY FIRMING COMPLEX 5%: 19%.
Average result BODY FIRMING COMPLEX 5%: 37%.
Best result BODY FIRMING COMPLEX 5%: 41.5%.

Results meaning:

AS rank between <20%: No significant changes.
AS rank between 21 – 40%: Slight improvement regarding placebo.
AS rank between 41 – 60%: Appreciable improvement regarding placebo.
AS rank between 61 – 80%: Great improvement regarding placebo.
AS rank between >81%: Excellent cosmetic result.