



BIOGRÜNDL, S.L.  
POLÍGONO LES FALLULLES, NAVE 34 -SECTOR 2-  
08620 SANT VICENÇ DELS HORTS, BARCELONA (SPAIN)  
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## TECHNICAL DATA SHEET

### **BUST FIRMING COMPLEX** **/ A / HGL / CA11 /**



**Trade Name:** BUST FIRMING COMPLEX / A / HGL / CA11 /

**Product Code:** CRSAHGLCA11.

**INCI Name:** AQUA, GLYCERIN, HUMULUS LUPULUS EXTRACT, SALVIA OFFICINALIS EXTRACT, HAMAMELIS VIRGINIANA LEAF EXTRACT, POTASSIUM SORBATE.

**INCI Status:** Conforms.

**REACH Status:** Low Volume Exemption.

**CAS Number:** 7732-18-5; 56-81-5; 8060-28-4; 8022-56-8 / 84082-79-1; 84696-19-5; 24634-61-5 / 590-00-1.

**EC Number:** 231-791-2; 200-289-5; 232-504-3; 282-025-9 / 282-025-9; 283-637-9; 246-376-1.

**Origin:** GLYCERIN: Vegetable origin.

**HUMULUS LUPULUS EXTRACT, SALVIA OFFICINALIS EXTRACT, HAMAMELIS VIRGINIANA LEAF EXTRACT:** Vegetable 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:** 1,000 - 1,300 g/cm<sup>3</sup> (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:** Phytocosmetic products. Brest turgid and tensing products.

**Properties:** Estrogenic, astringent and tensing.

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

**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

BUST FIRMING COMPLEX by BIOGRÜNDL, S.L. is a synergistic mixture of three plant extracts, two of them with estrogenic properties, hop extract and sage extract; the third, witch hazel extract with astringent and tensor effects.

BUST FIRMING COMPLEX by BIOGRÜNDL, S.L. contains three active components:

- Hop extract. Hop is a perennial plant belonging to the cannabaceae family. It forms long vine-like shoots where leaves and both male and female flowers born, the latter form inflorescences that are employed in industry (brewing) and cosmetics.
- Sage extract. Sage (*Salvia officinalis* L.) is a small evergreen shrub belonging to the labiatae family, with gray-green colour leaves and large blue-violet colour flowers.
- Witch hazel extract. Witch Hazel (*Hamamelis virginiana* L.) is a bush with several trunks that arise from one root, which makes it very similar to hazelnut tree. It has alternate oval leaves; yellow flowers in groups of three or four; the fruit is a capsule similar to hazelnut. It belongs to the hamamelidaceae family.

### USE AND DOSAGE

The incorporation in cosmetics of bust firming complex is justified by its estrogenic, astringent and tensing properties.

Because of its estrogenic raw content, causes skin turgidity on breasts. On the other hand, the high proportion of tannins it contains, has a remarkable tensing effect.

As its name indicates, BUST FIRMING COMPLEX by BIOGRÜNDL, S.L. only contains active ingredients from vegetable origin, so its use is preferred in phytocosmetic.

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%.



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### **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:** 1,000 - 1,300 g/cm<sup>3</sup> (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.

### **DERMATOLOGY INNOCUOUSNESS**

It was performed by the patch test (Patch test) on 10 volunteers. To this purpose, 15% BUST 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.



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### **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, HUMULUS LUPULUS EXTRACT, SALVIA OFFICINALIS EXTRACT, HAMAMELIS VIRGINIANA LEAF EXTRACT, POTASSIUM SORBATE.

### **EFFECTIVENESS TEST**

**Assay:** Double blind spot trial and subsequent cosmetic evaluation.

**Assayed parameters:** Bust firming action.

**N (volunteers):** 30 ♀.

**Age (volunteers):** 30 – 50 years old.

**Left side part to be treated:**

Placebo, 30 volunteers, suitable cosmetic base.

**Right side part to be treated:**

BUST FIRMING COMPLEX 2%, 15 volunteers, suitable cosmetic base.

**Right side part to be treated:**

BUST FIRMING COMPLEX 5%, 15 volunteers, suitable cosmetic base.



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### Assayed parameter:

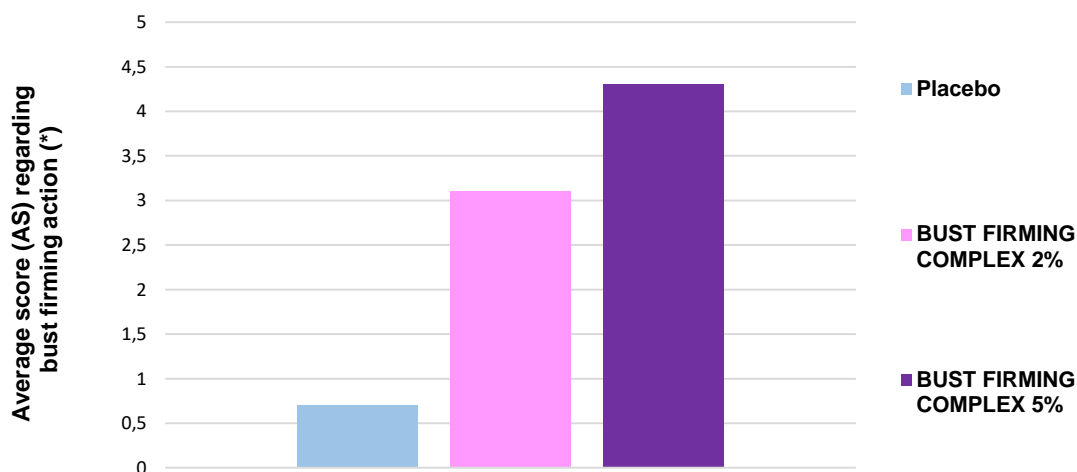
	Assay	N (volunteers)	Age (volunteers)	Placebo	BUST FIRMING COMPLEX 2%	BUST FIRMING COMPLEX 5%	Assay performed (Days)	Results measured (Days)
<b>Bust firming action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30♀	30 – 50	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 1



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### SKIN CONDITION EVALUATION AFTER 30 DAYS



(\*) Bust firming action was measured by a cutometer where the following parameters scored: smoothness, firmness and turgor.

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 day ( effectiveness test last day).

#### 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% BUST FIRMING COMPLEX by BIOGRÜNDL, S.L., 5% BUST 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.

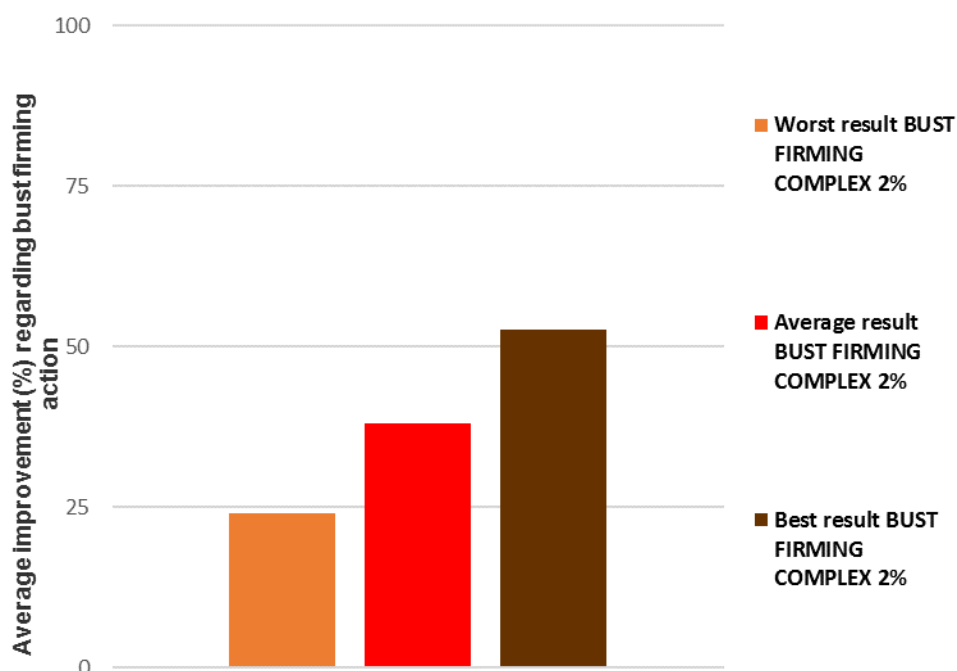
AS rank between 2 – 3: Appreciable improvement regarding placebo.

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

AS rank between 4 – 5: Excellent cosmetic result.

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### BUST FIRING COMPLEX 2%



#### Results:

Worst result BUST FIRING COMPLEX 2%: **24%**.  
 Average result BUST FIRING COMPLEX 2%: **38%**.  
 Best result BUST FIRING COMPLEX 2%: **52,5%**.

#### Results meaning:

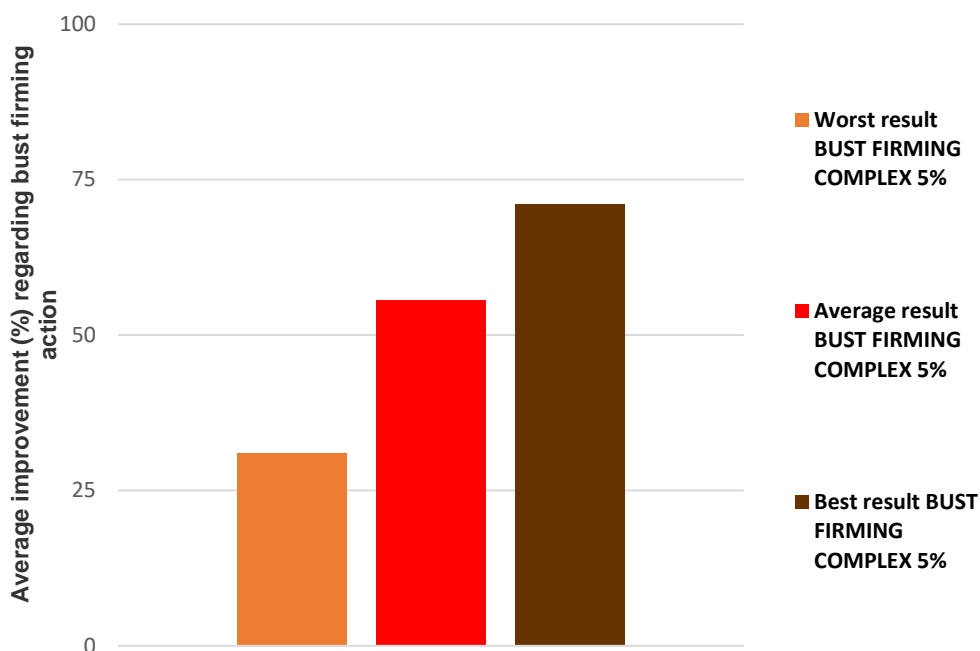
AI rank between < 20%: No significant changes.  
 AI rank between 21 – 40%: Slight improvement regarding placebo.  
 AI rank between 41 – 60%: Appreciable improvement regarding placebo.  
 AI rank between 61 – 80%: Great improvement regarding placebo.  
 AI rank between > 81%: Excellent cosmetic result.



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### BUST FIRING COMPLEX 5%



#### Results:

Worst result BUST FIRING COMPLEX 5%: 31%.

Average result BUST FIRING COMPLEX 5%: 55,5%.

Best result BUST FIRING COMPLEX 5%: 71%.

#### Results meaning:

AI rank between < 20%: No significant changes.

AI rank between 21 – 40%: Slight improvement regarding placebo.

AI rank between 41 – 60%: Appreciable improvement regarding placebo.

AI rank between 61 – 80%: Great improvement regarding placebo.

AI rank between > 81%: Excellent cosmetic result.