

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

### **GARDEN SAVOIR EXTRACT** **/ A / HGL / CA11 /**



**Trade Name:** GARDEN SAVOIR EXTRACT / A / HGL / CA11 /.

**Product Code:** EAJAHGLCA11.

**INCI Name:** AQUA, GLYCERIN, SATUREIA HORTENSIS EXTRACT, POTASSIUM SORBATE.

**INCI Status:** Conforms.

**REACH Status:** Low Volume Exemption.

**CAS Number:** 7732-18-5; 56-81-5; 84775-98-4; 24634-61-5 / 590-00-1.

**EC Number:** 231-791-2; 200-289-5; 283-922-8; 246-376-1.

**Origin:** GLYCERIN: Vegetable origin.

**SATUREIA HORTENSIS 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:** 1,050 - 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:** Oily skin preparations. Astringent products. Vulnerary creams. Functional and sport massage emulsions. Deodorants.

**Properties:** Flavoring, astringent, disinfectant, stimulant, vulnerary, soothing and calming.

**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.

- Fitocosméticos 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.

### **OVERVIEW**



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The Garden Savory (*Satureia hortensis* L.) is an annual plant belonging to the Labiatae family, typical of the Mediterranean regions. In its underarms violet flowers are formed, its fruits are tetraquenis.

GARDEN SAVOIR EXTRACT by BIOGRÜNDL, S.L. is obtained from the flowering tops, by prolonged maceration in a water and glycerin mixture which carries the following active ingredients:

- Essential oil contained in the plant in an amount between 1% and 1.5%, consisting of carvacrol (40% -45%), terpinene (25% -50%), cymene (5% -15%) and thymol (5% -10%), plus other minor components such as: pinene, linalool, borneol, cineol, camphor, etc.

This essence is very nice, so the Savory is used from time immemorial, to flavour and aroma of various foods, especially table olives.

- Tannins
- Polyphenolic acids (labiatic, chlorogenic, caffeic)
- Triterpens
- Vitamins, A especially

### USE AND DOSAGE

The incorporation of garden savoir extract in cosmetics is justified by its most important properties, which can be summarized as:

- Flavouring
- Astringent
- Disinfectant
- Stimulant
- Vulnerary
- Soothing
- Pain relieving

Its use is very appropriate in preparations for oily skin; products with astringent effect; vulnerary creams, soothing and disinfectants; as well as, in functional and sport massage emulsions. Also, in deodorants.

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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## TECHNICAL DATA SHEET

### **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/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% GARDEN SAVOIR EXTRACT 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, SATUREIA HORTENSIS EXTRACT, POTASSIUM SORBATE.

### **EFFECTIVENESS TESTS**

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

**Assayed parameters:** Astringent action. Calming action.

**N (volunteers):** 30 (15 ♀ and 15 ♂).

**Age (volunteers):** 21 – 75 years old.

**Left side part to be treated:**

Placebo, 30 volunteers, suitable cosmetic base.

**Right side part to be treated:**

GARDEN SAVOIR EXTRACT 2%, 15 volunteers, suitable cosmetic base.

**Right side part to be treated:**

GARDEN SAVOIR EXTRACT 5%, 15 volunteers, suitable cosmetic base.



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### Assayed parameters:

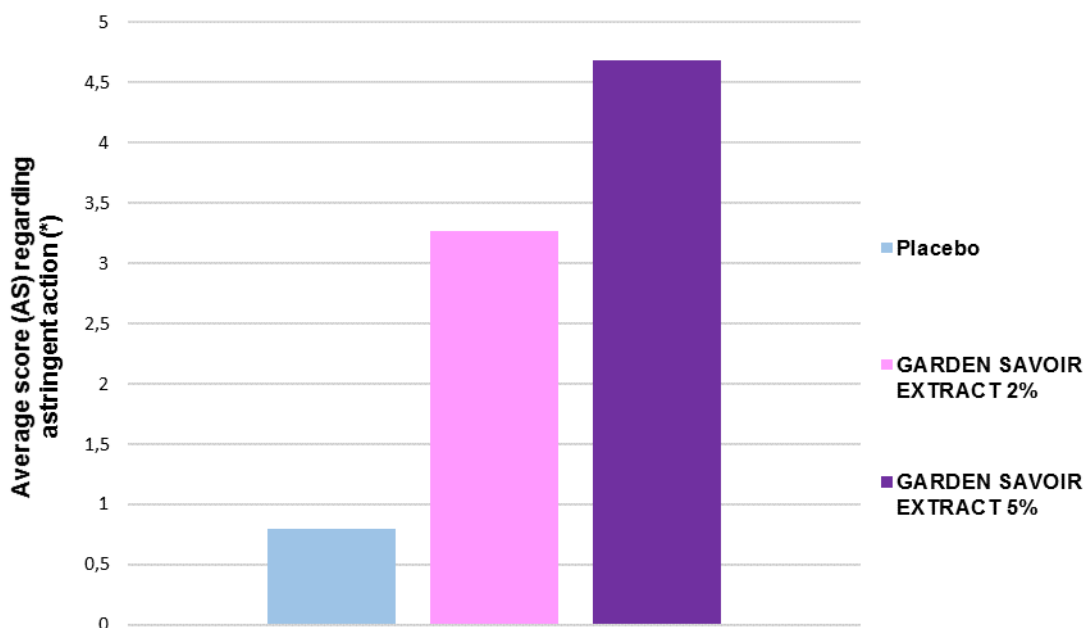
	Assay	N (volunteers)	Age (volunteers)	Placebo	GARDEN SAVOIR EXTRACT 2%	GARDEN SAVOIR EXTRACT 5%	Assay performed (Days)	Results measured (Days)
<b>Astringent action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 15 ♀ 15 ♂	21 – 40	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 1
<b>Calming action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 15 ♀ 15 ♂	21 – 75	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 30



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### SKIN CONDITION EVALUATION AFTER 30 DAYS



(\*) Astringent action was determined by quantification of fat substance amount collected from volunteers skin sample.

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% GARDEN SAVOIR EXTRACT by BIOGRÜNDL, S.L., 5% GARDEN SAVOIR EXTRACT 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.

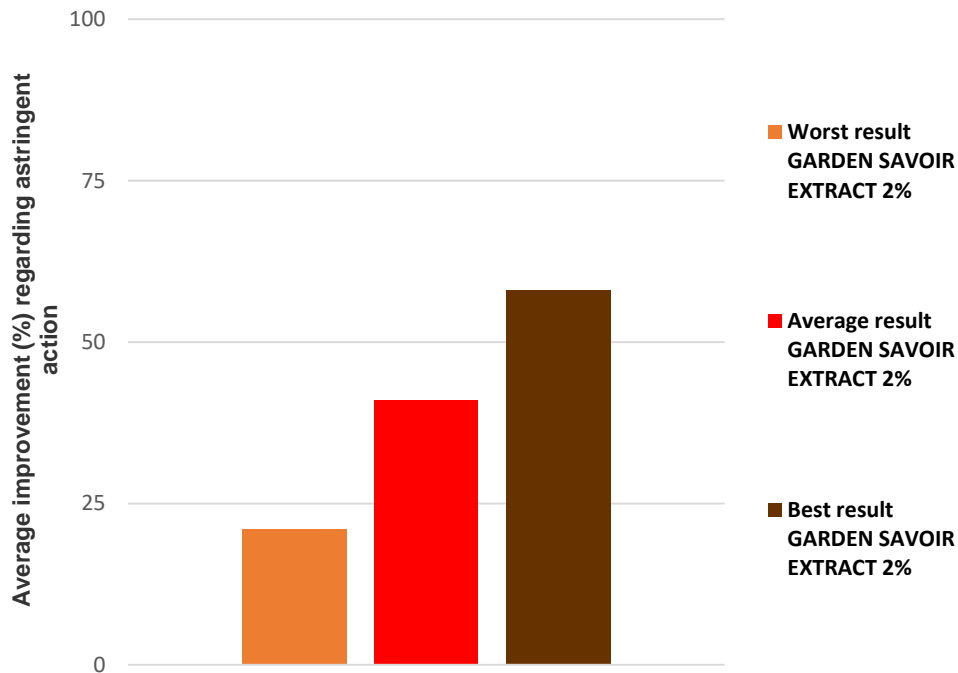
AS rank between 4 – 5: Excellent cosmetic result.



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### GARDEN SAVOIR EXTRACT 2%



#### Results:

Worst result GARDEN SAVOIR EXTRACT 2%: **21%**.

Average result GARDEN SAVOIR EXTRACT 2%: **41%**.

Best result GARDEN SAVOIR EXTRACT 2%: **58%**.

#### 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.

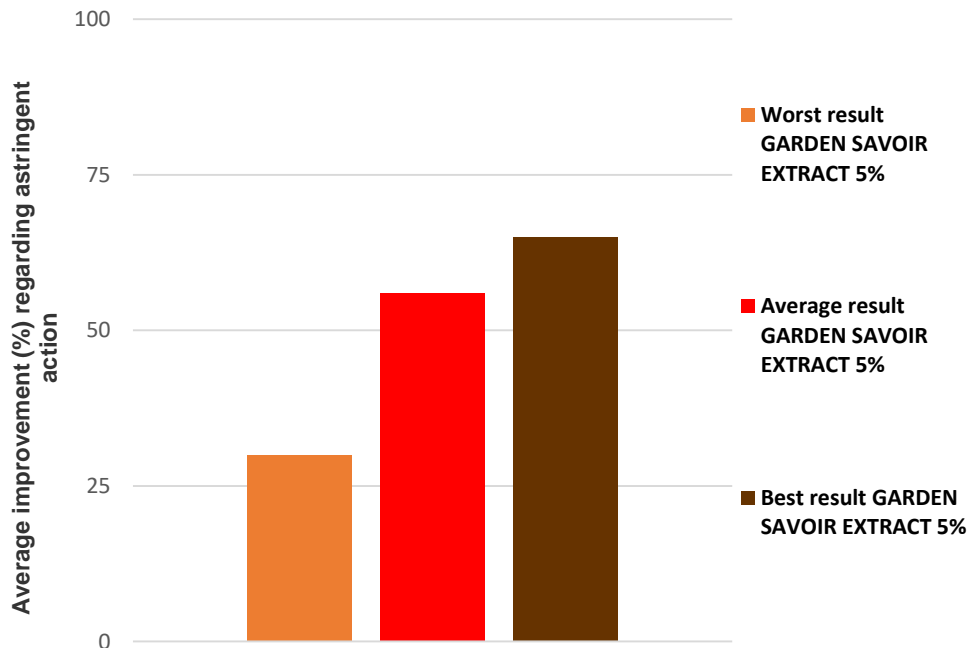
AI rank between > 81%: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### GARDEN SAVOIR EXTRACT 5%



#### Results:

Worst result GARDEN SAVOIR EXTRACT 5%: **30%**.  
Average result GARDEN SAVOIR EXTRACT 5%: **56%**.  
Best result GARDEN SAVOIR EXTRACT 5%: **65%**.

#### 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.

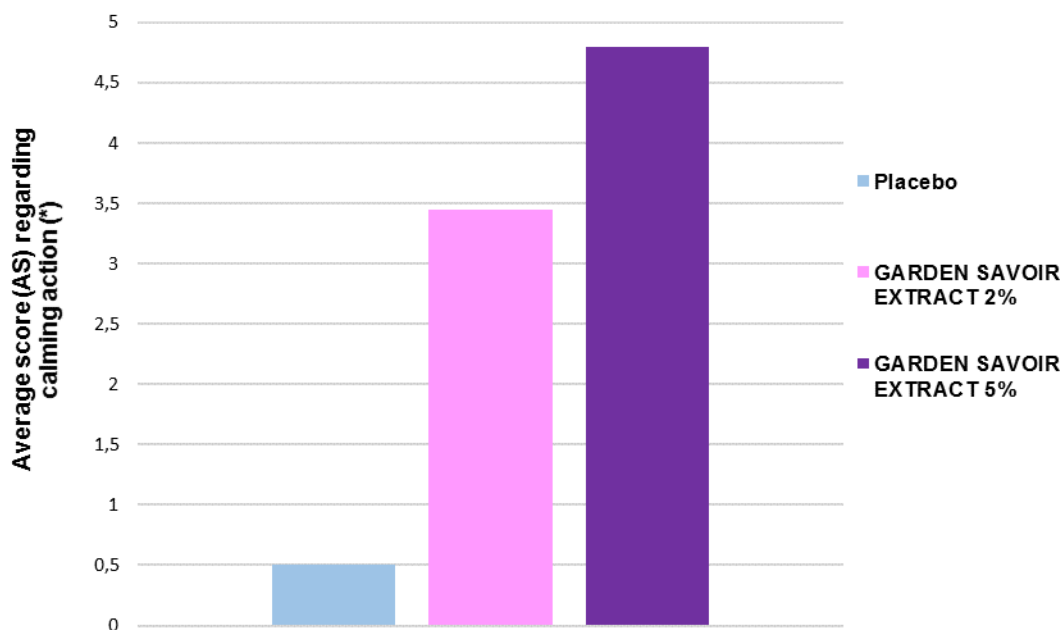




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### SKIN CONDITION EVALUATION AFTER 30 DAYS



(\*) Calming action was measured by itch, redness and warm feeling decrease, by subjective assessment from volunteers, in the treated skin zone.

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' = 30 days ( every day during 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% GARDEN SAVOIR EXTRACT by BIOGRÜNDL, S.L., 5% GARDEN SAVOIR EXTRACT 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.

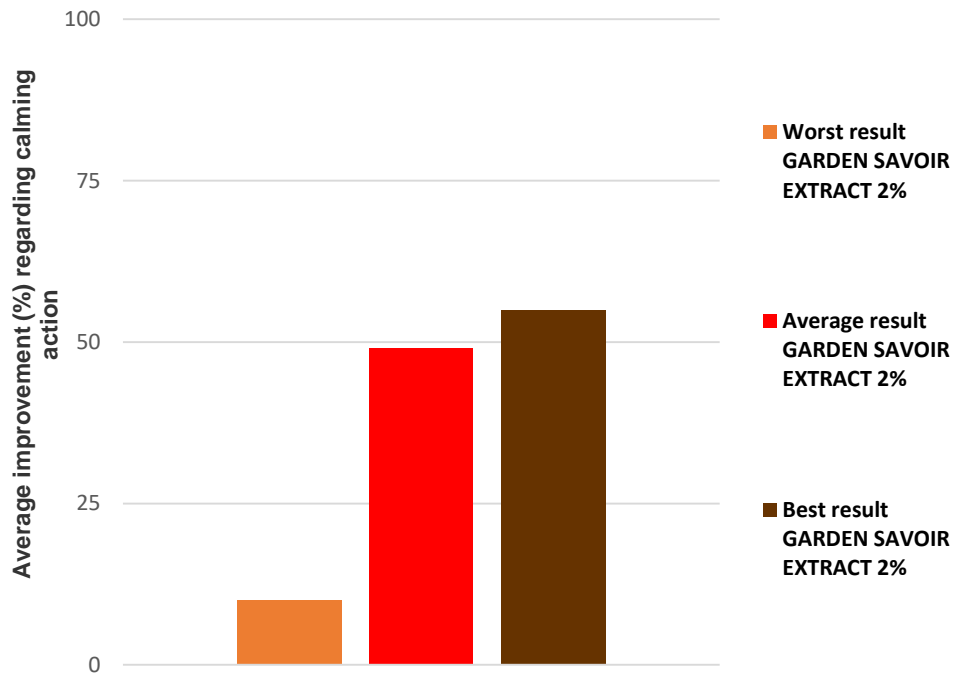
AS rank between 4 – 5: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### GARDEN SAVOIR EXTRACT 2%



#### Results:

Worst result GARDEN SAVOIR EXTRACT 2%: 10%.

Average result GARDEN SAVOIR EXTRACT 2%: 49%.

Best result GARDEN SAVOIR EXTRACT 2%: 55%.

#### 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.

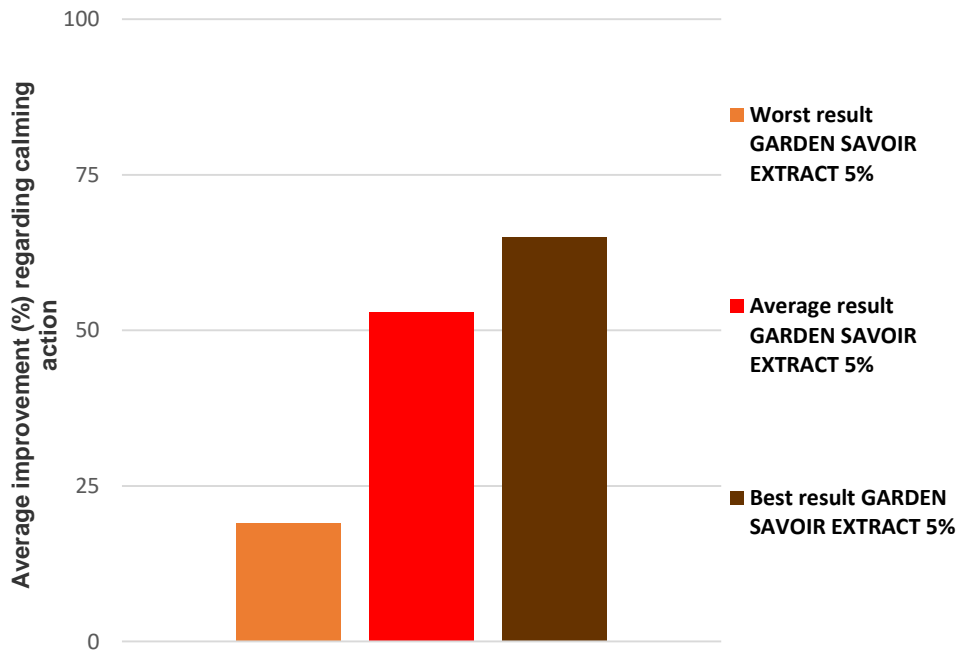
AI rank between > 81%: Excellent cosmetic result.



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### GARDEN SAVOIR EXTRACT 5%



#### Results:

Worst result GARDEN SAVOIR EXTRACT 5%: 19%.  
Average result GARDEN SAVOIR EXTRACT 5%: 53%.  
Best result GARDEN SAVOIR EXTRACT 5%: 65%.

#### 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.