



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

SAGE EXTRACT **/ A / HGL / CA11 /**



Trade Name: SAGE EXTRACT / A / HGL / CA11 /.

Product Code: ESVAHGLCA11.

INCI Name: AQUA, GLYCERIN, SALVIA OFFICINALIS LEAF EXTRACT, POTASSIUM SORBATE.

INCI Status: Conforms.

REACH Status: Low Volume Exemption.

CAS Number: 7732-18-5; 56-81-5; 84082-79-1 / 8022-56-8; 24634-61-5 / 590-00-1.

EC Number: 231-791-2; 200-289-5; 282-025-9; 246-376-1.

Origin: GLYCERIN: Vegetable origin.

SALVIA OFFICINALIS 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: 1,050 - 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: Anti-acne products. Breast development preparations. Oily, impure and/or irritated skin treatment. Deodorants, antiperspirants, toothpastes and mouthwashes.

Properties: Antiseptic, healing, toning, anti-inflammatory, estrogenic and deodorant.

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

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.

As active ingredients it should be noted the following:

- Essential oil, whose main components are pinene, camphor, cineol, borneol and bornyl acetate.
- Triterpenic compounds, ursolic and oleanoic acids.
- Catechic tannins.
- Phenolic acids, labiatic, rosmarinic, caffeic and chlorogenic.
- Flavonoids, luteolin and salvagenin.
- B, C and P vitamins.
- Strogenic material.
- Phytosterols.

SAGE EXTRACT by BIOGRÜNDL, S.L. is obtained from the leaves and the flowering tops by treatment with water and glycerin at temperatures between 50 and 60°C.

USE AND DOSAGE

The incorporation of sage extract in cosmetics is justified by its antiseptic, healing, toning, anti-inflammatory, estrogenic and deodorant properties.

It is employed in anti-acne products and in breast development preparations. Also, to treat oily, impure and/or irritated skins. Its inclusion in deodorants, antiperspirants, toothpastes and mouthwashes is also encouraged.

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: 1,050 - 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.

DERMATOLOGY INNOCUOUSNESS

It was performed by the patch test (Patch test) on 10 volunteers. To this purpose, 15% SAGE 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, SALVIA OFFICINALIS LEAF EXTRACT, POTASSIUM SORBATE.

EFFECTIVENESS TESTS

Assay: Double blind spot trial and subsequent cosmetic evaluation.

Assayed parameters: Healing action. Toning action. Deodorant action.

N (volunteers): 30 (18 ♀ and 12 ♂).

Age (volunteers): 18 – 67 years old.

Left side part to be treated:

Placebo, 30 volunteers, suitable cosmetic base.

Right side part to be treated:

SAGE EXTRACT 2%, 15 volunteers, suitable cosmetic base.

Right side part to be treated:

SAGE EXTRACT 5%, 15 volunteers, suitable cosmetic base.

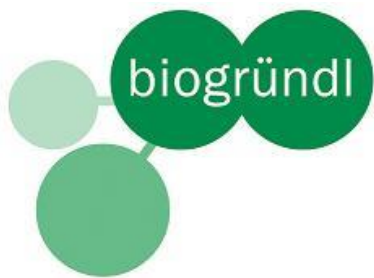


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Assayed parameters:

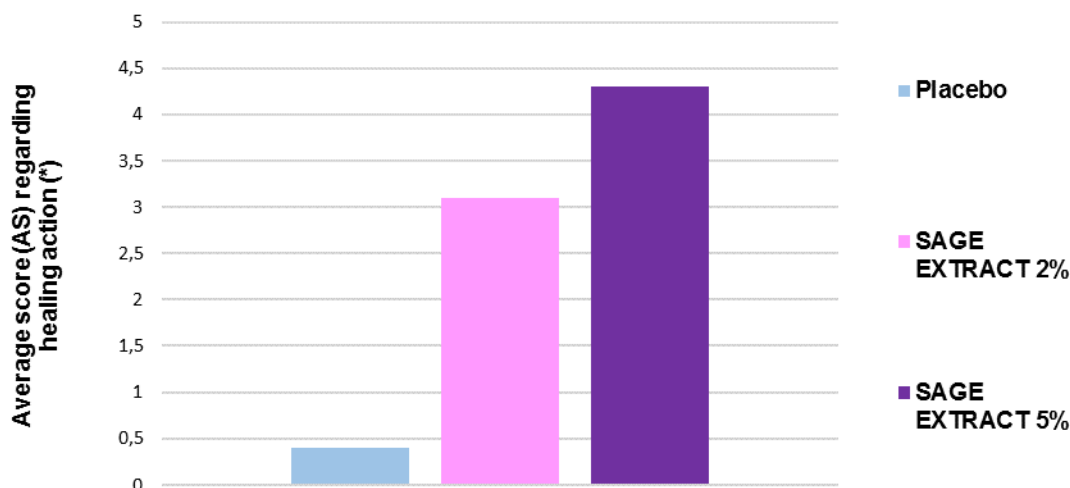
| | Assay | N (volunteers) | Age (volunteers) | Placebo | SAGE EXTRACT 2% | SAGE EXTRACT 5% | Assay performed (Days) | Results measured (Days) |
|------------------|---|-------------------------|------------------|----------------|-----------------------------------|------------------------------------|------------------------|-------------------------|
| Healing action | Double blind spot trial and subsequent cosmetic evaluation. | N = 30 18 ♀ and 12 ♂ | 18 – 67 | Left side part | Right side part 15 volunteers. | Right side part. 15 volunteers. | D = 30 | D' = 1 |
| Toning action | Double blind spot trial and subsequent cosmetic evaluation. | N = 30 18 ♀ and 12 ♂ | 18 – 67 | Left side part | Right side part 15 volunteers. | Right side part. 15 volunteers. | D = 15 | D' = 1 |
| Deodorant action | Double blind spot trial and subsequent cosmetic evaluation. | N = 30 18 ♀ and 12 ♂ | 18 – 67 | 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



(*) Healing action was evaluated by measurement and direct observation of marks evolution caused by early acne in volunteers face.

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% SAGE EXTRACT by BIOGRÜNDL, S.L., 5% SAGE 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.

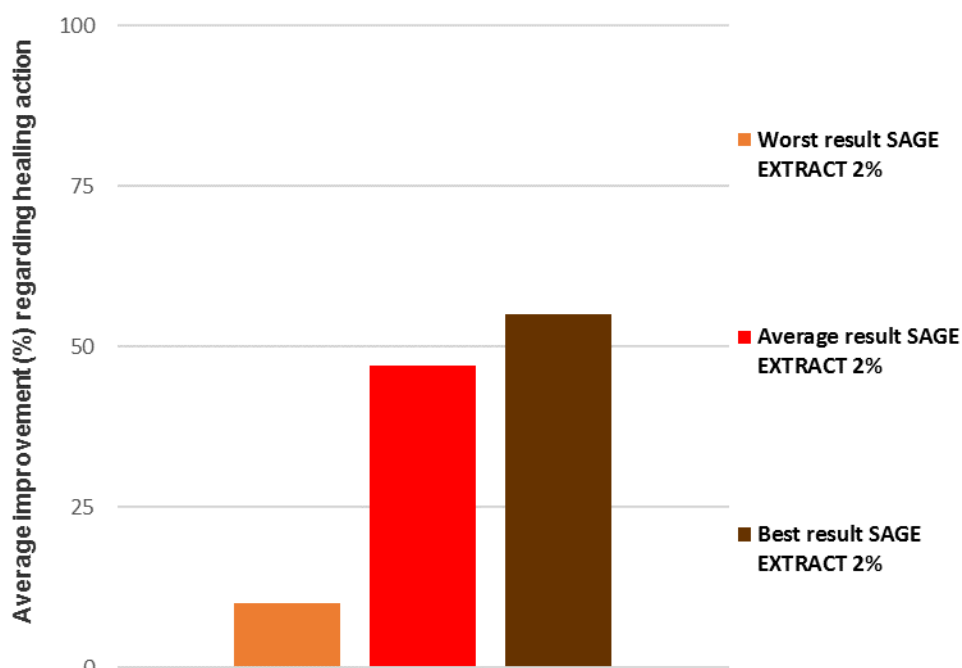
AS rank between 4 – 5: Excellent cosmetic result.



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TECHNICAL DATA SHEET

SAGE EXTRACT 2%

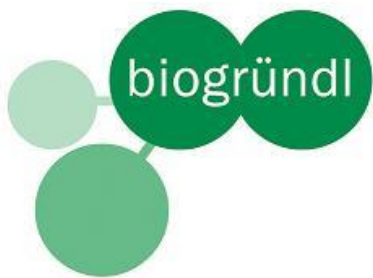


Results:

Worst result SAGE EXTRACT 2%: 10%.
Average result SAGE EXTRACT 2%: 47%.
Best result SAGE EXTRACT 2%: 55%.

Results meaning:

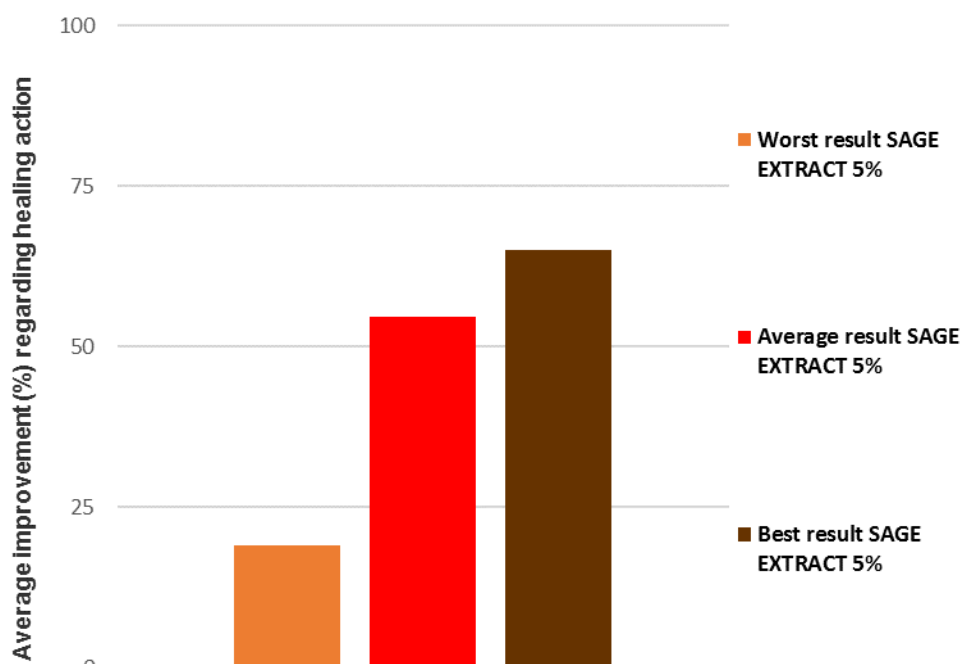
AI rank between < 20%: No significant changes.
AI rank between 21 – 40%: Slight improvement regarding placebo.
AI rank between 41 – 60%: Appreciable improvement regarding placebo.
AI rank between 61 – 80%: Great improvement regarding placebo.
AI rank between > 81%: Excellent cosmetic result.



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SAGE EXTRACT 5%

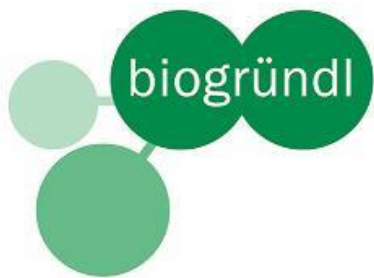


Results:

Worst result SAGE EXTRACT 5%: 19%.
Average result SAGE EXTRACT 5%: 54,5%.
Best result SAGE EXTRACT 5%: 65%.

Results meaning:

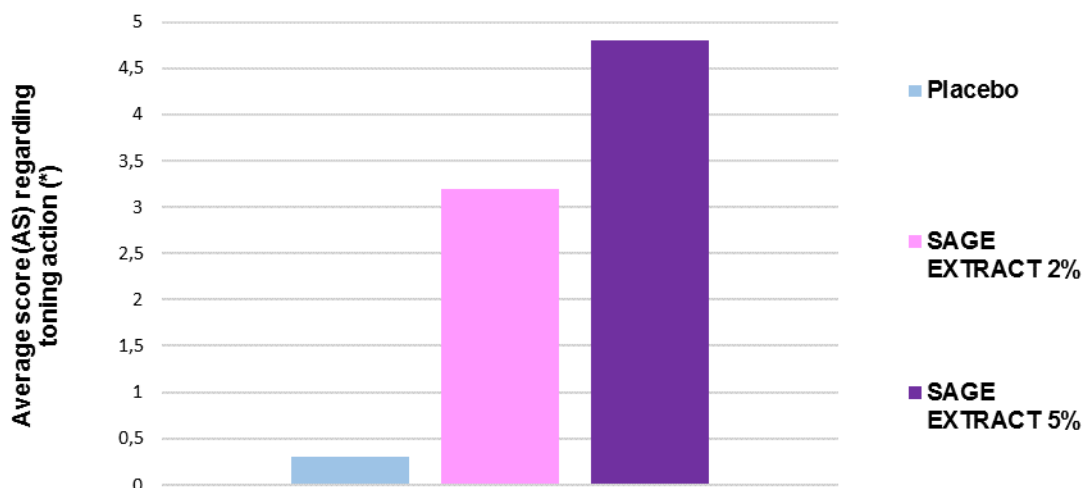
AI rank between < 20%: No significant changes.
AI rank between 21 – 40%: Slight improvement regarding placebo.
AI rank between 41 – 60%: Appreciable improvement regarding placebo.
AI rank between 61 – 80%: Great improvement regarding placebo.
AI rank between > 81%: Excellent cosmetic result.



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SKIN CONDITION EVALUATION AFTER 30 DAYS



(*) Toning action was measured by a cutometer and by direct observation of volunteers skin firmness (tension).

Total number of days in which the assay was performed (treatment was applied):
D = 15 days (every other 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% SAGE EXTRACT by BIOGRÜNDL, S.L., 5% SAGE 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.

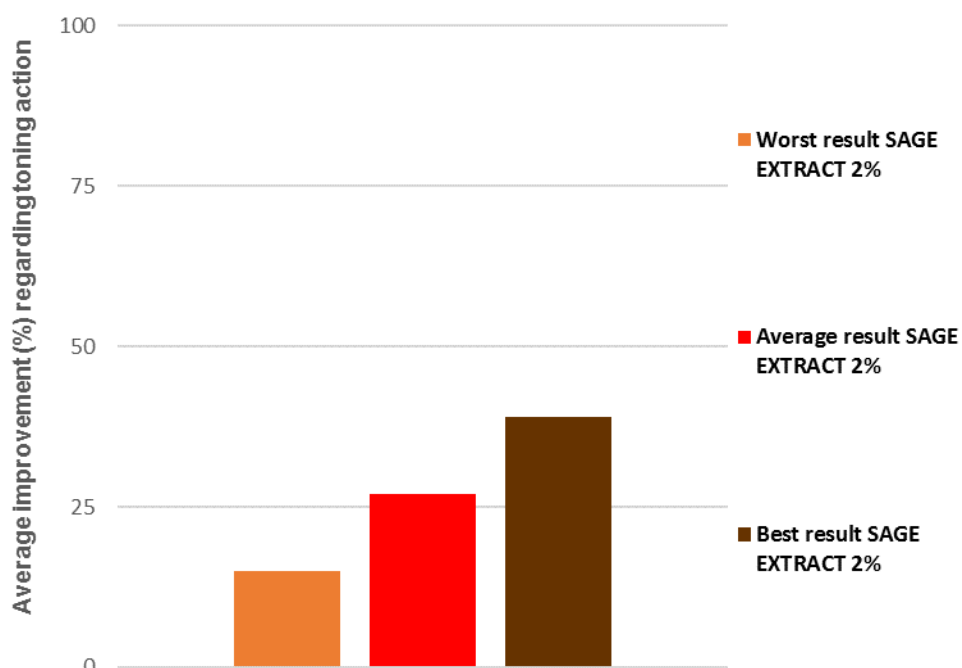
AS rank between 4 – 5: Excellent cosmetic result.



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SAGE EXTRACT 2%



Results:

Worst result SAGE EXTRACT 2%: 15%.
Average result SAGE EXTRACT 2%: 27%.
Best result SAGE EXTRACT 2%: 39%.

Results meaning:

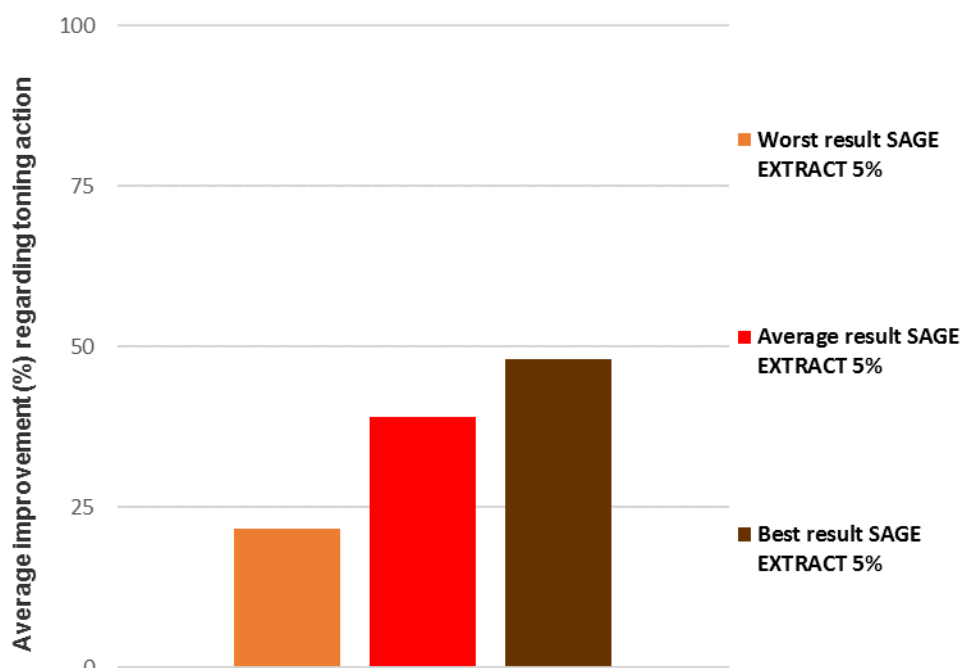
AI rank between < 20%: No significant changes.
AI rank between 21 – 40%: Slight improvement regarding placebo.
AI rank between 41 – 60%: Appreciable improvement regarding placebo.
AI rank between 61 – 80%: Great improvement regarding placebo.
AI rank between > 81%: Excellent cosmetic result.



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SAGE EXTRACT 5%



Results:

Worst result SAGE EXTRACT 5%: 21,5%.

Average result SAGE EXTRACT 5%: 39%.

Best result SAGE EXTRACT 5%: 48%.

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.

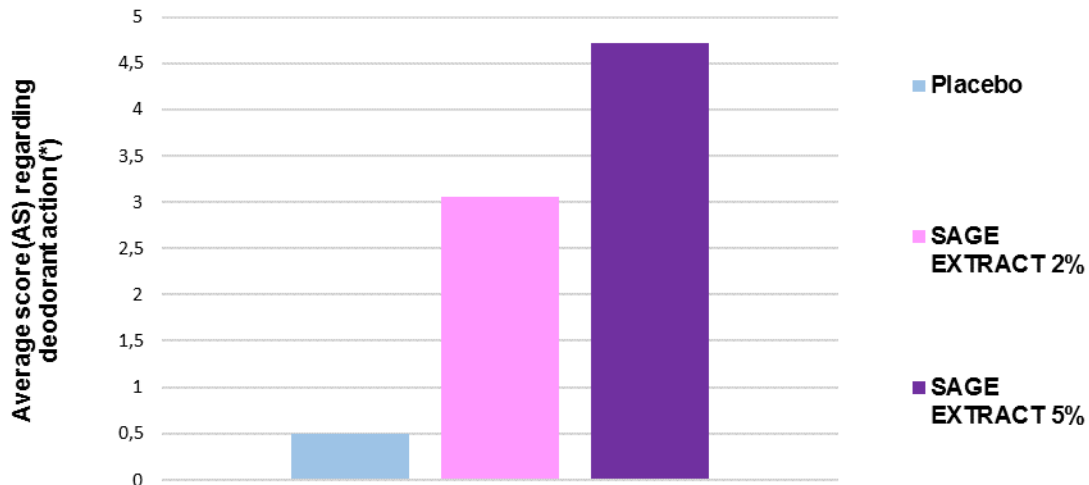
AI rank between > 81%: Excellent cosmetic result.



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SKIN TRANSPARATION EVALUATION AFTER 30 DAYS



(*) Deodorant action was measured by reduction of perspiration odour (growth reduction of the bacteria that causes bad odour) in volunteers treated zone (armpits).

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% SAGE EXTRACT by BIOGRÜNDL, S.L., 5% SAGE EXTRACT by BIOGRÜNDL, S.L..

Results meaning:

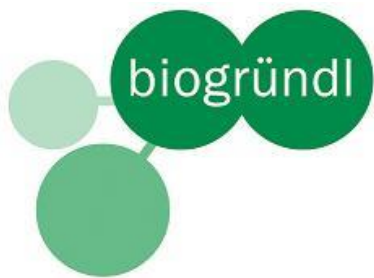
AS rank between 0 – 1: No significant changes.

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.

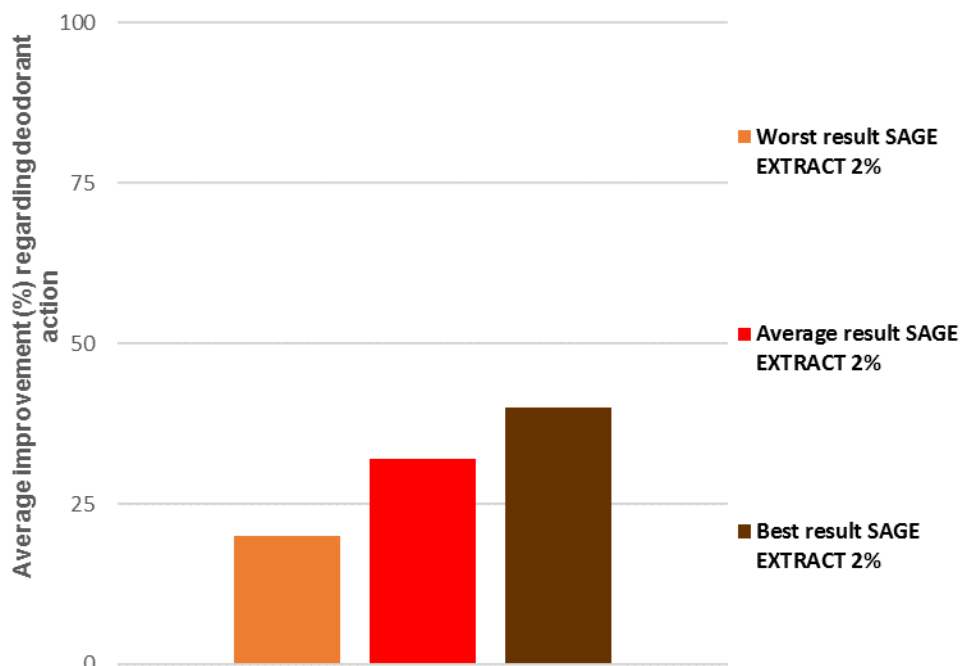
AS rank between 4 – 5: Excellent cosmetic result.



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SAGE EXTRACT 2%



Results:

Worst result SAGE EXTRACT 2%: 20%.

Average result SAGE EXTRACT 2%: 32%.

Best result SAGE EXTRACT 2%: 40%.

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.

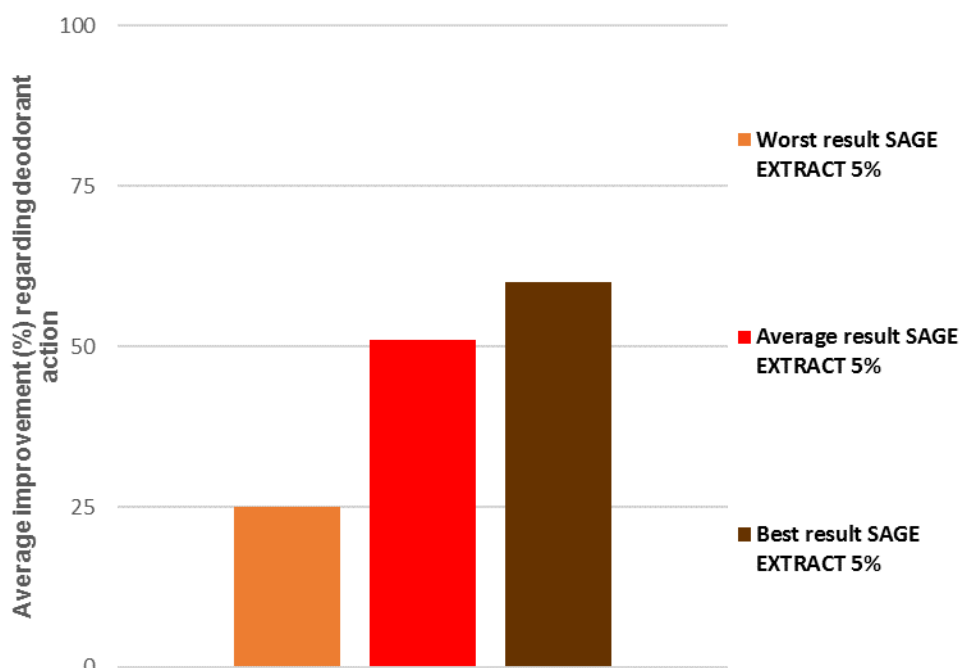
AI rank between > 81%: Excellent cosmetic result.



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SAGE EXTRACT 5%



Results:

Worst result SAGE EXTRACT 5%: 25%.
Average result SAGE EXTRACT 5%: 51%.
Best result SAGE EXTRACT 5%: 60%.

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.