



BIOGRÜNDL, S.L.
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TECHNICAL DATA SHEET

CHAMOMILE EXTRACT / A / HGL / CA11 /



Trade Name: CHAMOMILE EXTRACT / A / HGL / CA11 /

Product Code: EMAAHGLCA11.

INCI Name: AQUA, GLYCERIN, CHAMOMILLA RECUTITA EXTRACT, POTASSIUM SORBATE.

INCI Status: Conforms.

REACH Status: Low Volume Exemption.

CAS Number: 7732-18-5; 56-81-5; 84082-60-0; 24634-61-5 / 590-00-1.

EC Number: 231-791-2; 200-289-5; 282-006-5; 246-376-1.

Origin: GLYCERIN: Vegetable origin.

CHAMOMILLA RECUTITA 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: Soothing tonic lotion. Acne preventive lotions. Cosmetics for children. Anti-dandruff and blond hair shampoos.

Properties: Calming, flavouring, antispasmodic, antineuralgic, antipruritic, lenitive, bacteriostatic and fungistatic.

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.



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OVERVIEW

Hydroglyceric extract of Chamomilla recutita L., inflorescences rich in terpenic hydrocarbons (farsene and calidene), alphasibabolol and its oxide, chamuzulene, flavonoids (epigenin, luteolin and coumarins).

USE AND DOSAGE

The incorporation of chamomile extract in cosmetics is justified by its flavouring, antispasmodic, antineuralgic, antipruritic, lenitive, bacteriostatic and fungistatic properties.

Soothing and decongestive to skin that has become altered due to drastic cosmetic treatments (deep skin cleansing, depilation, peeling, etc.)

Applies, generally, in the form of soothing tonic lotion, acne preventive lotion and cosmetics for children. CHAMOMILE EXTRACT by BIOGRÜNDL, S.L. it has use because of its bacteriostatic and fungistatic properties that advise its incorporation in anti-dandruff and blond hair shampoos to keep its golden colour.

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% CHAMOMILE 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.

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, CHAMOMILLA RECUTITA EXTRACT, POTASSIUM SORBATE.

EFFECTIVENESS TEST

Assay: Double blind spot trial and subsequent cosmetic evaluation.

Assayed parameters: Calming action.

N (volunteers): 30 (17 ♀ and 13 ♂).

Age (volunteers): 25 – 65 years old.

Left side part to be treated:

Placebo, 30 volunteers, suitable cosmetic base.

Right side part to be treated:

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

Right side part to be treated:

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

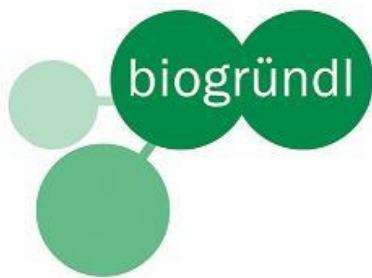


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Assayed parameters:

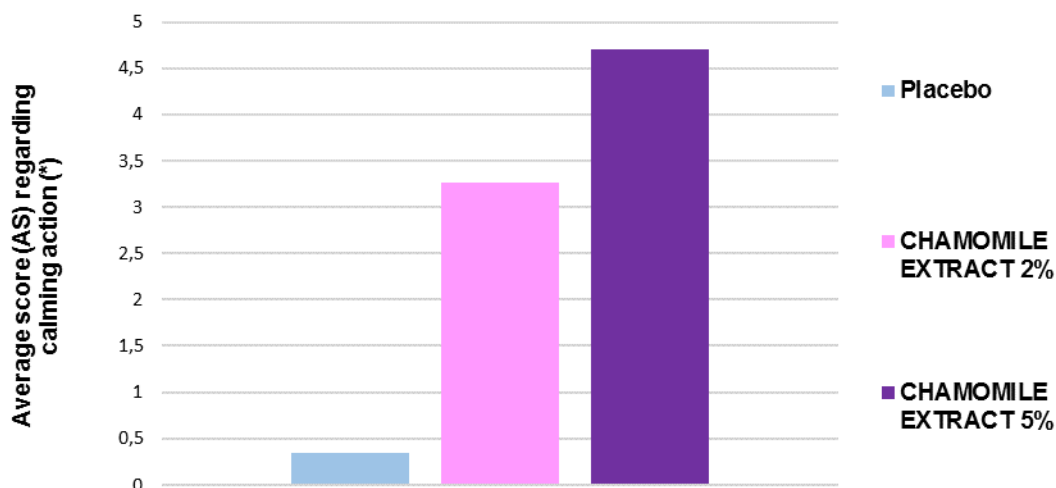
	Assay	N (volunteers)	Age (volunteers)	Placebo	CHAMOMILE EXTRACT 2%	CHAMOMILE EXTRACT 5%	Assay performed (Days)	Results measured (Days)
Calming action	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 17 ♀ 13 ♂	25 – 65	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 30



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SKIN CONDITION EVALUATION AFTER 30 DAYS



(*) 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% CHAMOMILE EXTRACT by BIOGRÜNDL, S.L., 5% CHAMOMILE EXTRACT by BIOGRÜNDL, S.L..

Results meaning:

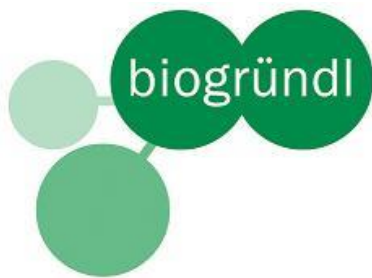
AS rank between 0 – 1: No significant changes.

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.

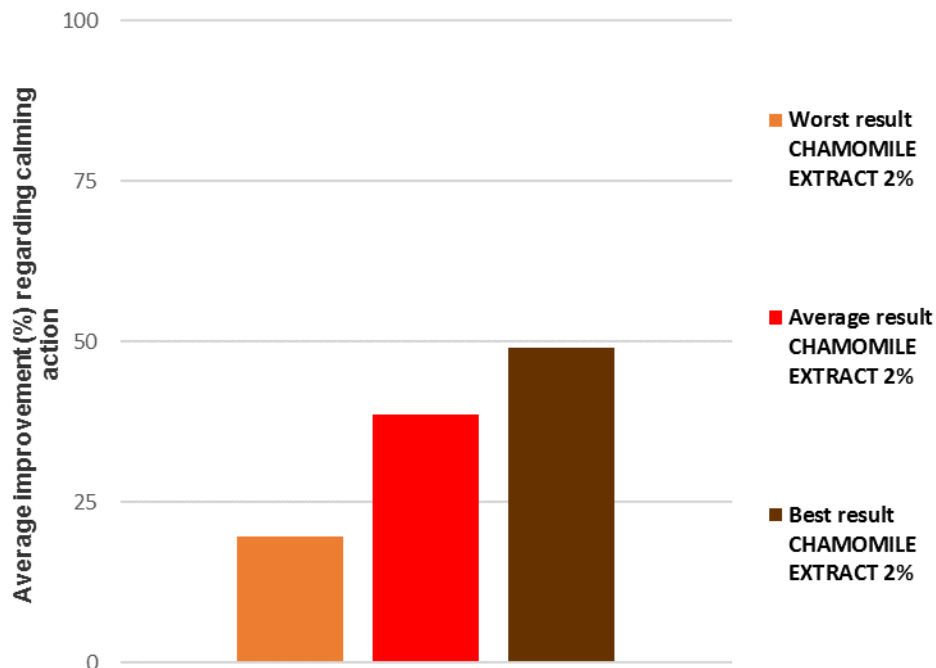
AS rank between 4 – 5: Excellent cosmetic result.



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CHAMOMILE EXTRACT 2%

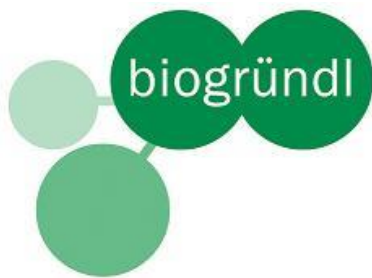


Results:

Worst result CHAMOMILE EXTRACT 2%: 19,5%.
Average result CHAMOMILE EXTRACT 2%: 38,5%.
Best result CHAMOMILE EXTRACT 2%: 49%.

Results meaning:

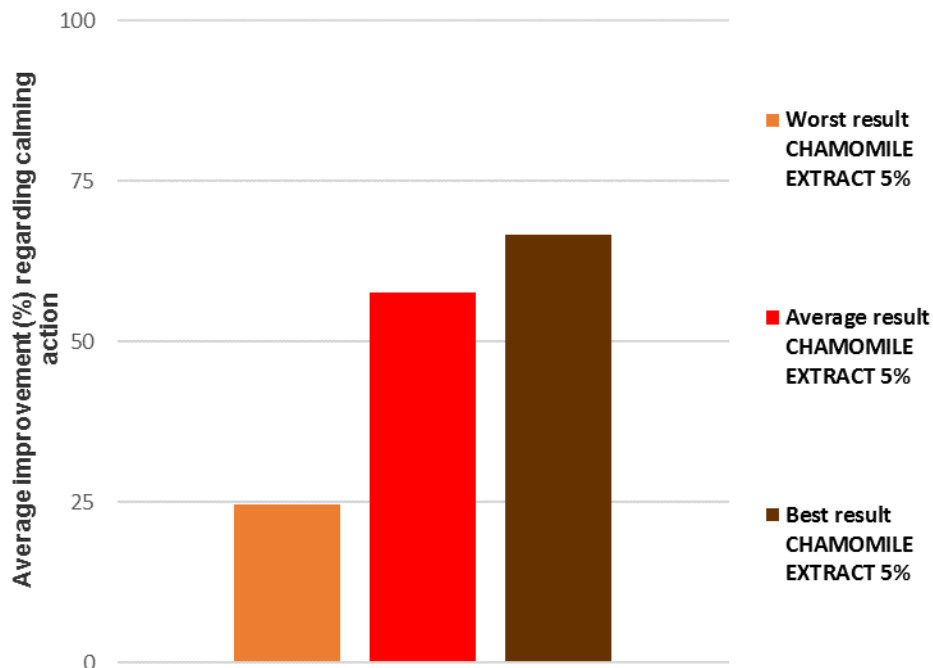
AI rank between < 20%: No significant changes.
AI rank between 21 – 40%: Slight improvement regarding placebo.
AI rank between 41 – 60%: Appreciable improvement regarding placebo.
AI rank between 61 – 80%: Great improvement regarding placebo.
AI rank between > 81%: Excellent cosmetic result.



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CHAMOMILE EXTRACT 5%



Results:

Worst result CHAMOMILE EXTRACT 5%: **24,5%**.
Average result CHAMOMILE EXTRACT 5%: **57,5%**.
Best result CHAMOMILE EXTRACT 5%: **66,5%**.

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.