

TECHNICAL DATA SHEET

EVERLASTING FLOWER EXTRACT **/ AEC / HGL / CA20 /**



Trade Name: EVERLASTING FLOWER EXTRACT / AEC / HGL / CA20 /.

Product Code: CEPPAHGLC20.

INCI Name: AQUA, GLYCERIN, HELICHRYSUM STOECHAS FLOWER EXTRACT, POTASSIUM SORBATE, SODIUM BENZOATE.

INCI Status: Conforms.

REACH Status: Low Volume Exemption.

CAS Number: 7732-18-5; 56-81-5; 91845-22-6; 24634-61-5/ 590-00-1; 532-32-1.

EC Number: 231-791-2; 200-289-5; 295-193-3; 246-376-1; 208-534-8.

Origin: GLYCERIN: Vegetable origin.

HELICHRYSUM STOECHAS FLOWER EXTRACT: Vegetable origin.



POTASSIUM SORBATE: Synthetic origin.

SODIUM BENZOATE: 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, Sodium Benzoate. 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: It helps the treatment of eczema and psoriasis.

Properties: Anti-inflammatory, antibacterial, antifungal, antiallergic.

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.

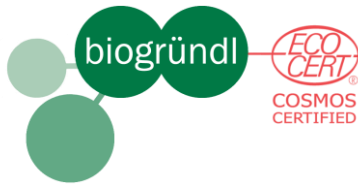
- Fitocosmeticos ALVAREZ CRUZ i BAGUE SERRANO.

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

- Plantas medicinales, FONT i QUER.

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

- Websites.



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OVERVIEW

The perpetual (*Helichrysum stoechas*), also known as helicriso, chamomile bastard or everlasting; It is a plant native to Europe, belonging to the Asteraceae family.

The leaves are hairy, narrow, linear, tomentose, with the rolled edge and grayish. The flowers are arranged in a floral head, flosculosas, hermaphrodites in the center and feminine filiform in the periphery of the flat naked receptacle of palea, they measure between 3 and 4 mm. long and are yellow.

EVERLASTING FLOWER EXTRACT by BIOGRÜNDL, S.L. It is obtained from the flowers of the organic farming ecological agriculture plant, treating them with a mixture of water and glycerin that drags the following active principles:

- Essential oils (neryl acetate, furfural, α -pinene).
- Flavonoids: helicrisin B (salipurposide, chalcone), isosalipurposide, derivatives of luteolol, quercetol and kenferol.
- Phytosterols: β -sitosterol.
- Derivatives of phloroglucinol: helipirone, italipirone, plicatipirone.
- Derivatives of acetophenone: arenol, homoarenol.

USE AND DOSAGE

The application in cosmetic of the everlasting flower extract is justified by its anti-inflammatory, antitussive, antibacterial, antifungal, antiallergic properties.

Very indicated for the treatment of eczema, phlebitis, psoriasis, blepharoconjunctivitis and parodontopathies.

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.

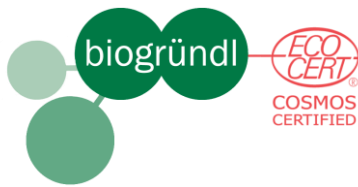
DERMATOLOGY INNOCUOUSNESS

It was performed by the patch test (Patch test) on 10 volunteers. To this purpose, 15% EVERLASTING FLOWER 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, HELICHRYSUM STOECHAS FLOWER EXTRACT, POTASSIUM SORBATE, SODIUM BENZOATE.

EFFECTIVENESS TESTS

Assay: Double blind spot trial and subsequent cosmetic evaluation.

Assayed parameters: Anti-bacterial action.

N (volunteers): 30 (10 ♀ and 20 ♂).

Age (volunteers): 19 - 43 years old.

Left side part to be treated:

Placebo, 30 volunteers, suitable cosmetic base.

Right side part to be treated:

EVERLASTING FLOWER EXTRACT 2%, 15 volunteers, suitable cosmetic base.

Right side part to be treated:

EVERLASTING FLOWER EXTRACT 5%, 15 volunteers, suitable cosmetic base.



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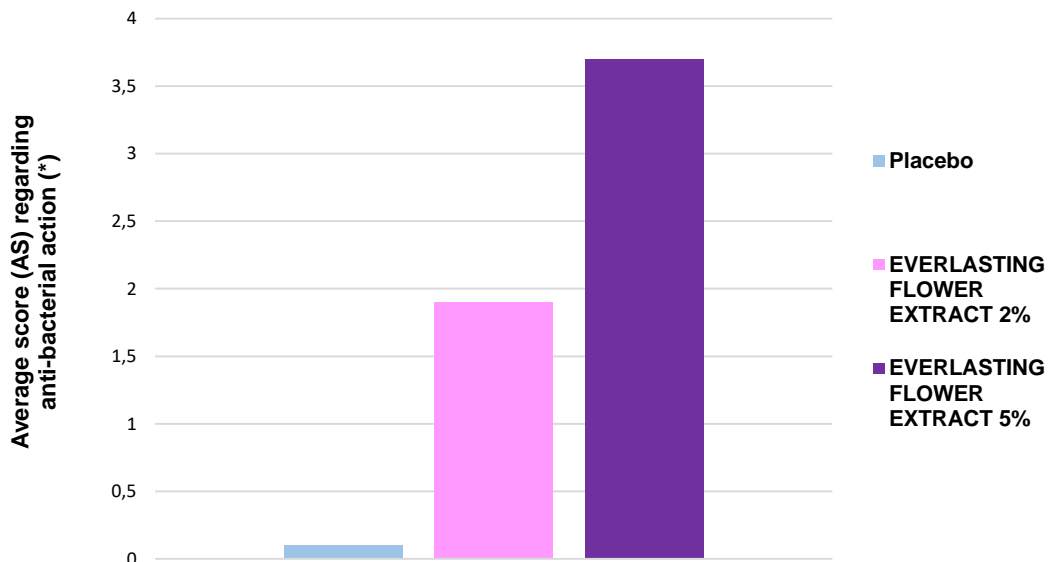
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Assayed parameters:

	Assay	N (volunteers)	Age (volunteers)	Placebo	EVERLASTING FLOWER EXTRACT 2%	EVERLASTING FLOWER EXTRACT 5%	Assay performed (Days)	Results measured (Days)
Anti-bacterial action	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 10 ♀ 20 ♂	19 - 43	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



(*) Anti-bacterial action was measured by microbial count of microbiological seeding in appropriate specific medium, 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' = 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% EVERLASTING FLOWER EXTRACT by BIOGRÜNDL, S.L., 5% EVERLASTING FLOWER EXTRACT by BIOGRÜNDL, S.L..

Results meaning:

AS rank between 0 – 1: No significant changes.

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

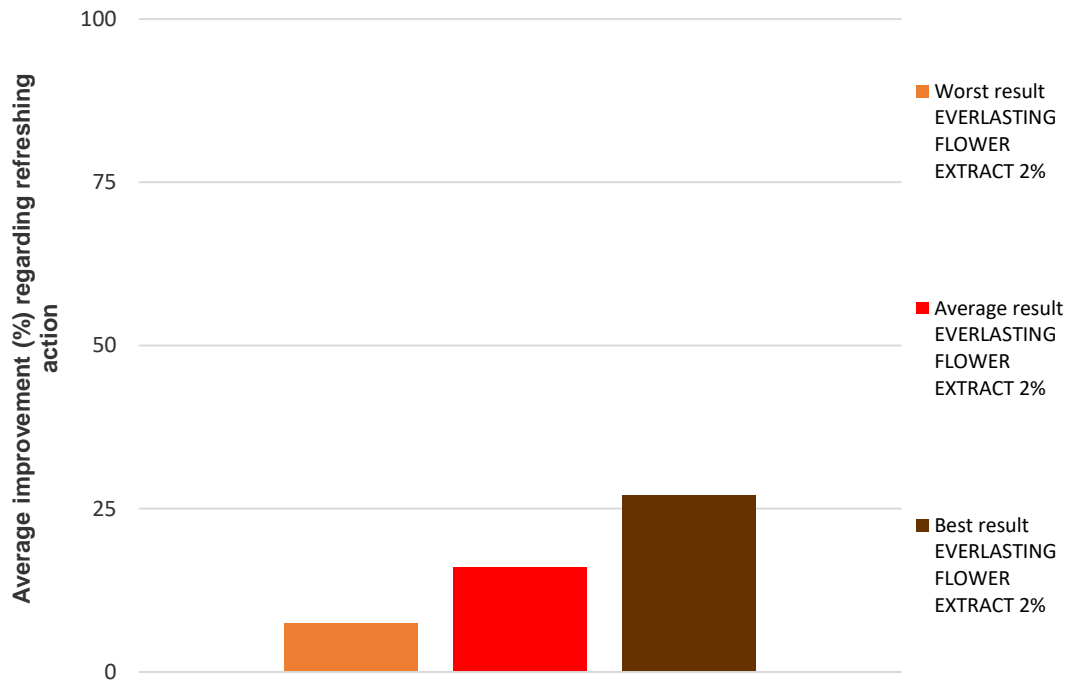
AS rank between 2 – 3: Appreciable improvement regarding placebo.

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

AS rank between 4 – 5: Excellent cosmetic result.

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EVERLASTING FLOWER EXTRACT 2%



Results:

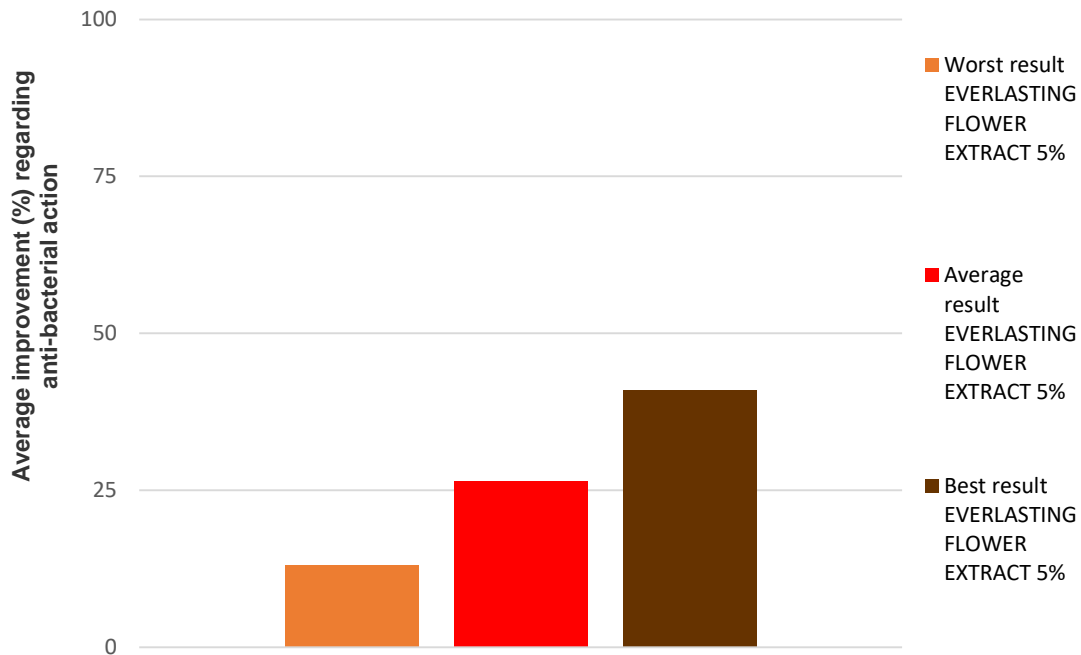
Worst result EVERLASTING FLOWER EXTRACT 2%: **7,5%**.
 Average result EVERLASTING FLOWER EXTRACT 2%: **16%**.
 Best result EVERLASTING FLOWER EXTRACT 2%: **27%**.

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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EVERLASTING FLOWER EXTRACT 5%



Results:

Worst result EVERLASTING FLOWER EXTRACT 5%: **13%**.
 Average result EVERLASTING FLOWER EXTRACT 5%: **26,5%**.
 Best result EVERLASTING FLOWER EXTRACT 5%: **41%**.

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.