

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

### **WHITE CAVIAR** **(SNAIL ROE EXTRACT)** **/ A / HGL / CA11 /**



**Trade Name:** WHITE CAVIAR (SNAIL ROE EXTRACT) / A / HGL / CA11 /.

**Product Code:** WCVAHGLCA11.

**INCI Name:** AQUA, GLYCERIN, SNAIL EGG EXTRACT, POTASSIUM SORBATE.

**INCI Status:** Conforms.

**REACH Status:** Low Volume Exemption.

**CAS Number:** 7732-18-5; 56-81-5; Not available; 24634-61-5 / 590-00-1.

**EC Number:** 231-791-2; 200-289-5; Not available; 246-376-1.

**Origin:** GLYCERIN: Vegetable origin.

**SNAIL EGG EXTRACT:** Animal 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:** Aged, dehydrated and/or with impurities skin preparations. Revitalizing, anti-ageing and anti-wrinkle products. Punished and lack of vigor hair treatments.

**Properties:** Moisturizing, nourishing, protective, skin metabolism activator 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.



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### **OVERVIEW**

Snail roe known in gastronomy as white caviar, constitutes the last derivative of snail, remember that the former was slime, presenting great qualities for use in cosmetic and dermatopharmaceutical preparations. The main disadvantage is its high price since the snail, in each laying, which is usually annual, lays between 80 and 150 roes, requiring about 300 of them to get a kilogram of roes.

To obtain WHITE CAVIAR (SNAIL ROE EXTRACT), BIOGRÜNDL, S.L., starts with snail roes (*Helix aspersa*) which, once crushed, are treated with a mixture of water and glycerin. The obtained liquid contains, as active substances, the following:

- Proteins, rich in essential amino acids.
- Cell proliferating cells, such as allantoin.
- Vitamins, especially A, C, E and some from B group.
- Minerals and trace elements, including Ca, Mg, P, Fe, Cu, Zn, I, Si.
- Carbohydrates, including glucose, sucrose and glycogen.
- Lipids, especially triglycerides, phospholipids and sterols.

### **USE AND DOSAGE**

The incorporation in cosmetics of white caviar (snail roe extract) is justified by its moisturizing, nourishing, protective, skin metabolism activator and calming properties.

Its use is useful in aged, dehydrated and/or with impurities skin preparations. Very indicated, also, in revitalizing, anti-ageing and anti-wrinkle products. As well as, to treat punished and lack of vigour hair.

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% WHITE CAVIAR (SNAIL ROE 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, SNAIL EGG EXTRACT, POTASSIUM SORBATE.

### **EFFECTIVENESS TESTS**

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

**Assayed parameters:** Moisturizing action. Protective action. Calming action.

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

**Age (volunteers):** 18 – 88 years old.

**Left side part to be treated:**

Placebo, 30 volunteers, suitable cosmetic base.

**Right side part to be treated:**

WHITE CAVIAR (SNAIL ROE EXTRACT) 2%, 15 volunteers, suitable cosmetic base.

**Right side part to be treated:**

WHITE CAVIAR (SNAIL ROE EXTRACT) 5%, 15 volunteers, suitable cosmetic base.



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### Assayed parameters:

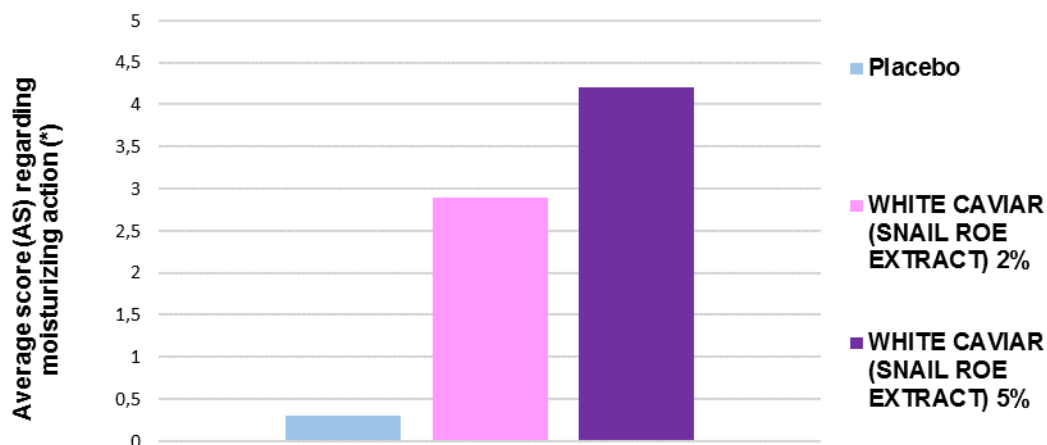
	Assay	N (volunteers)	Age (volunteers)	Placebo	WHITE CAVIAR (SNAIL ROE EXTRACT) 2%	WHITE CAVIAR (SNAIL ROE EXTRACT) 5%	Assay performed (Days)	Results measured (Days)
<b>Moisturizing action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 15 ♀ and 15 ♂	18 – 88	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 30
<b>Protective action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 15 ♀ and 15 ♂	18 – 88	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 ♀ and 15 ♂	18 – 88	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



(\*) Moisturizing action was determined by using a device called Tewameter which evaluates moisturizing effectiveness, providing TEWL parameters (transepidermal water loss), on volunteers treated 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% WHITE CAVIAR (SNAIL ROE EXTRACT) by BIOGRÜNDL, S.L.,  
5% WHITE CAVIAR (SNAIL ROE EXTRACT) by BIOGRÜNDL, S.L..

#### Results meaning:

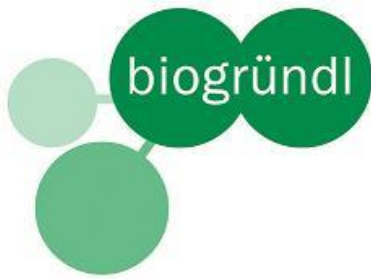
AS rank between 0 – 1: No significant changes.

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.

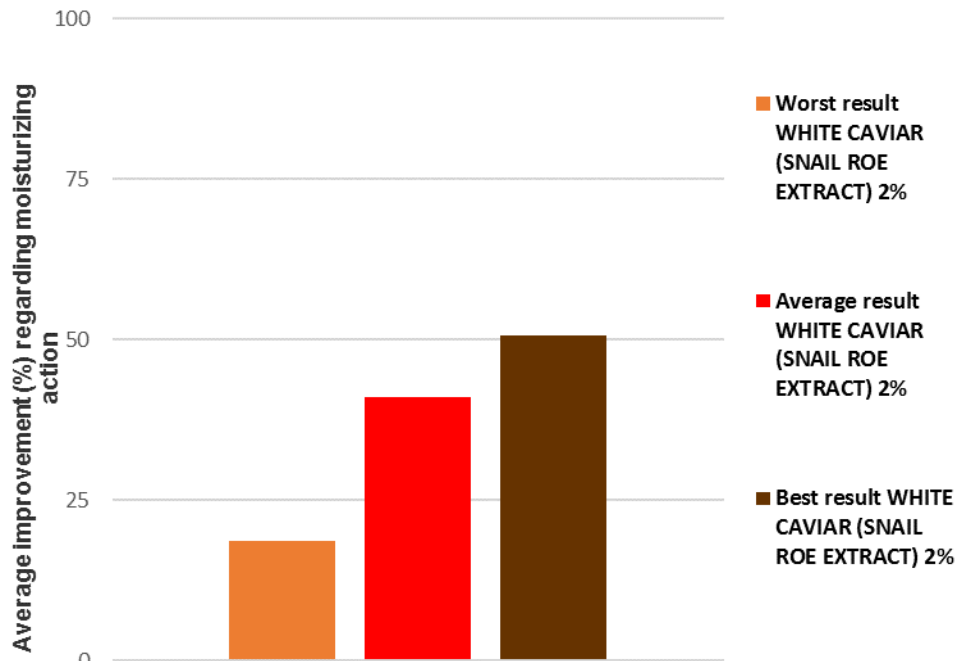
AS rank between 4 – 5: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### WHITE CAVIAR (SNAIL ROE EXTRACT) 2%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 18,5%.  
Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 41%.  
Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 50,5%.

#### Results meaning:

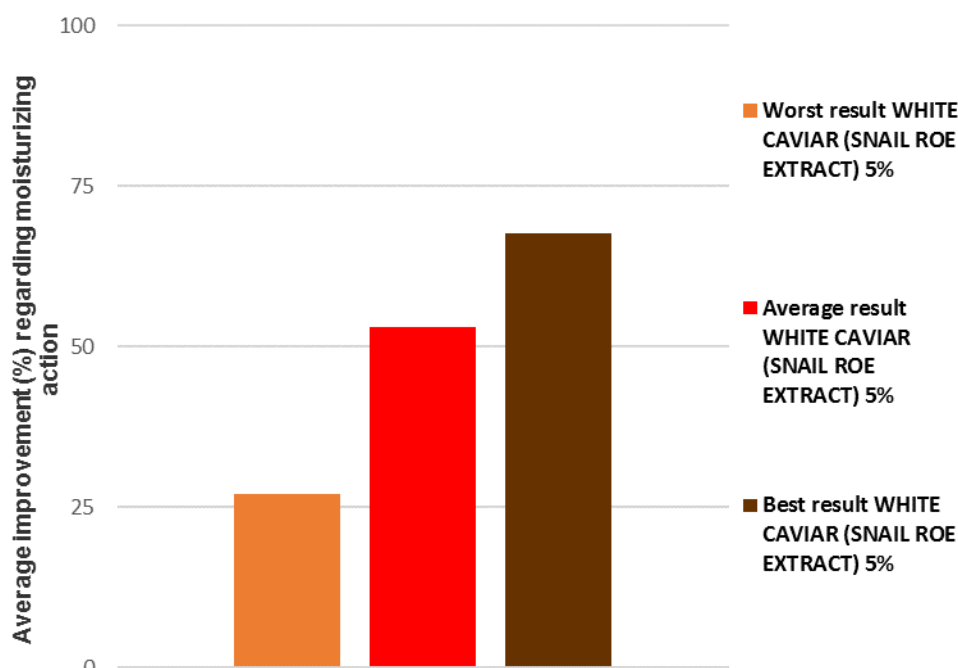
AI rank between < 20%: No significant changes.  
AI rank between 21 – 40%: Slight improvement regarding placebo.  
AI rank between 41 – 60%: Appreciable improvement regarding placebo.  
AI rank between 61 – 80%: Great improvement regarding placebo.  
AI rank between > 81%: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### WHITE CAVIAR (SNAIL ROE EXTRACT) 5%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 27%.

Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 53%.

Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 67,5%.

#### 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.

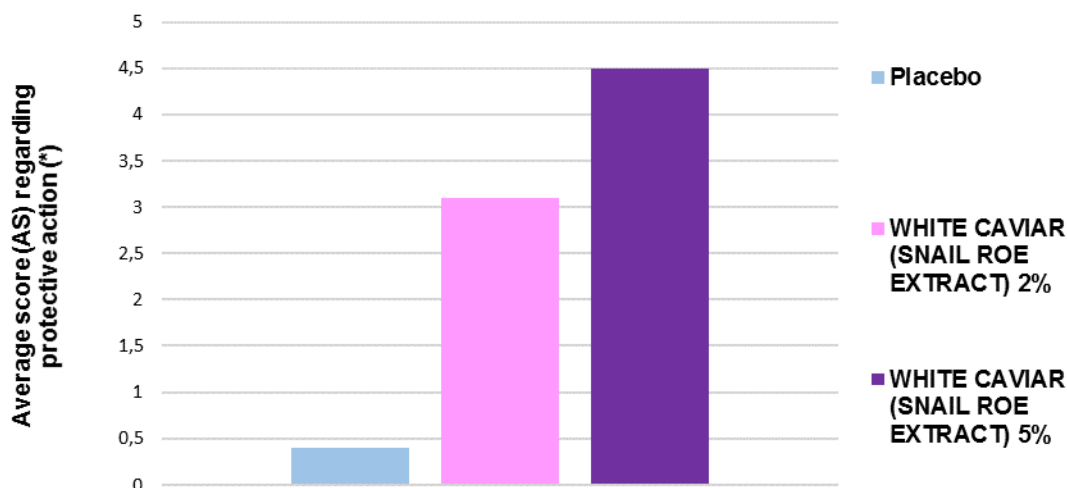




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## TECHNICAL DATA SHEET

### SKIN CONDITION EVALUATION AFTER 30 DAYS



(\*) Protective action was evaluated by direct observation of protection to damage produced in skin volunteers (unfavorable environment).

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% WHITE CAVIAR (SNAIL ROE EXTRACT) by BIOGRÜNDL, S.L.,  
5% WHITE CAVIAR (SNAIL ROE 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.

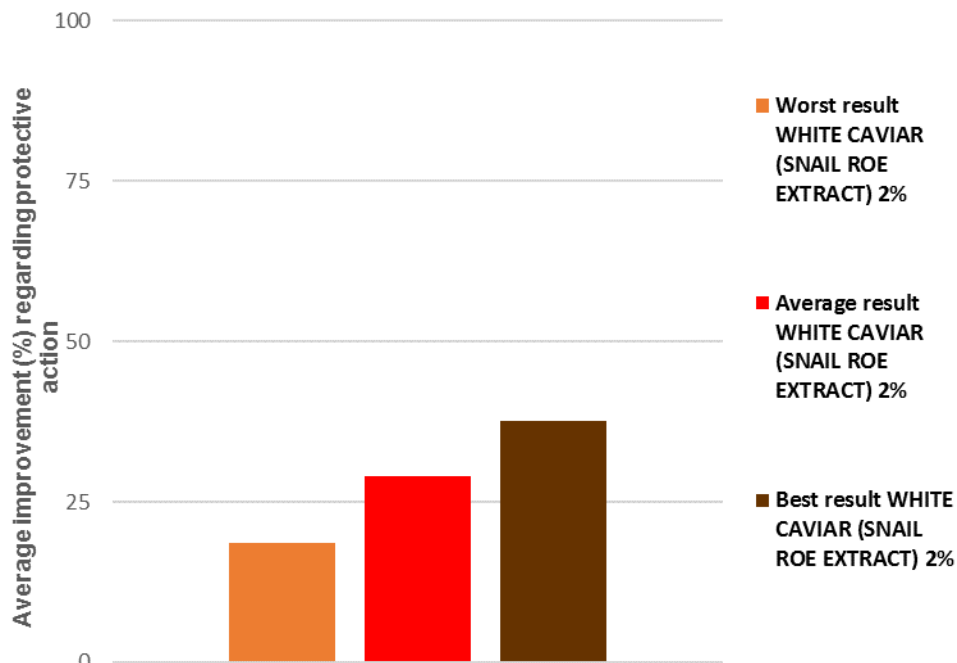
AS rank between 4 – 5: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### WHITE CAVIAR (SNAIL ROE EXTRACT) 2%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 18,5%.  
Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 29%.  
Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: 37,5%.

#### Results meaning:

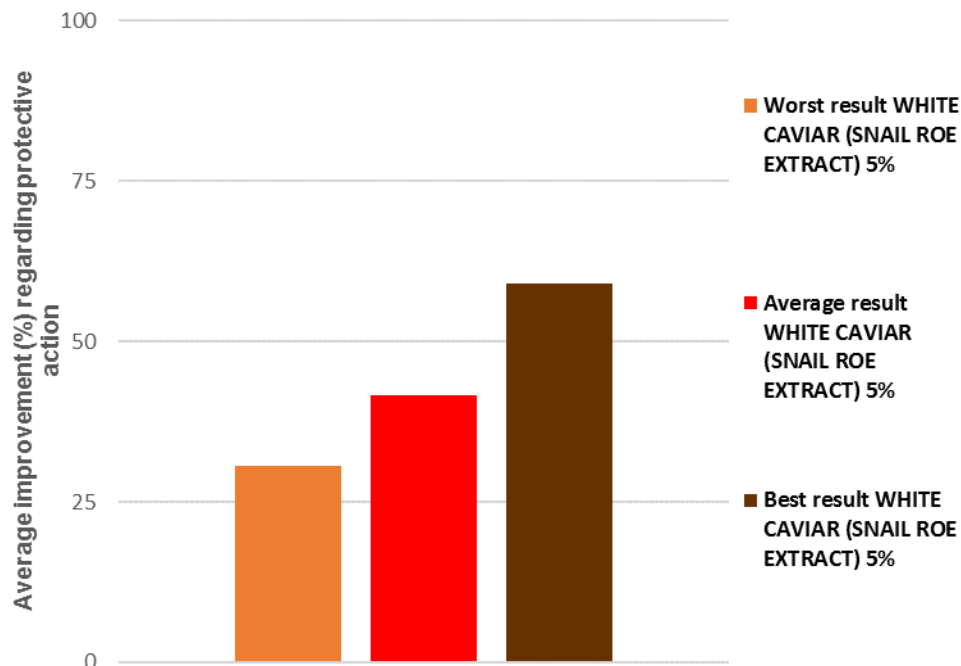
AI rank between < 20%: No significant changes.  
AI rank between 21 – 40%: Slight improvement regarding placebo.  
AI rank between 41 – 60%: Appreciable improvement regarding placebo.  
AI rank between 61 – 80%: Great improvement regarding placebo.  
AI rank between > 81%: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### WHITE CAVIAR (SNAIL ROE EXTRACT) 5%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 30,5%.

Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 41,5%.

Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: 59%.

#### Results meaning:

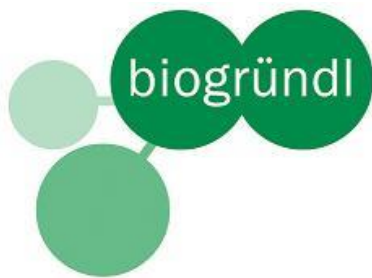
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AI rank between 21 – 40%: Slight improvement regarding placebo.

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

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

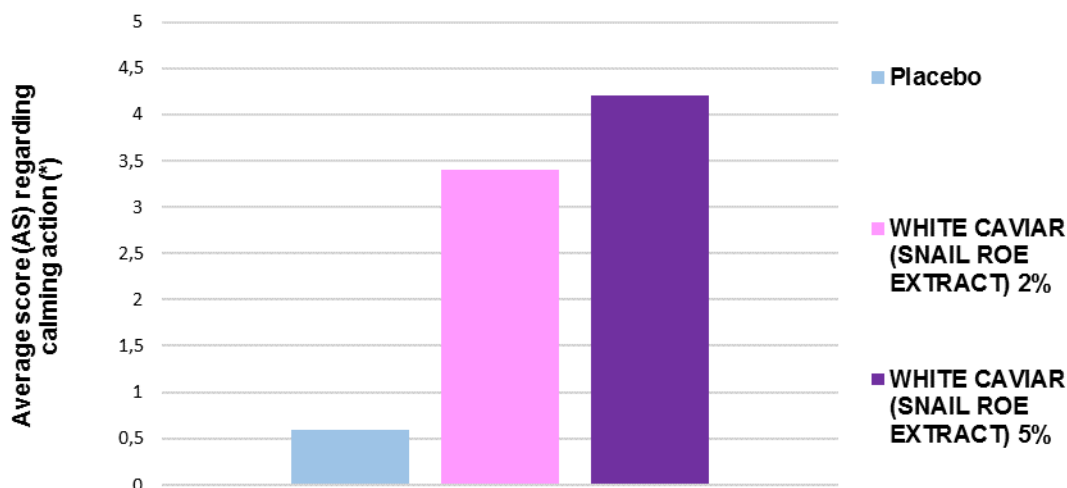
AI rank between > 81%: Excellent cosmetic result.



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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% WHITE CAVIAR (SNAIL ROE EXTRACT) by BIOGRÜNDL, S.L.,  
5% WHITE CAVIAR (SNAIL ROE EXTRACT) by BIOGRÜNDL, S.L..

#### Results meaning:

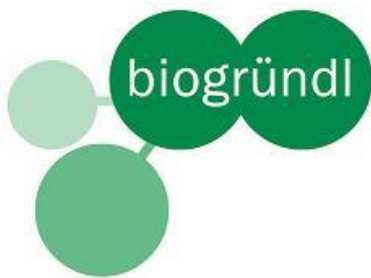
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AS rank between 1 – 2: Slight improvement regarding placebo.

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

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

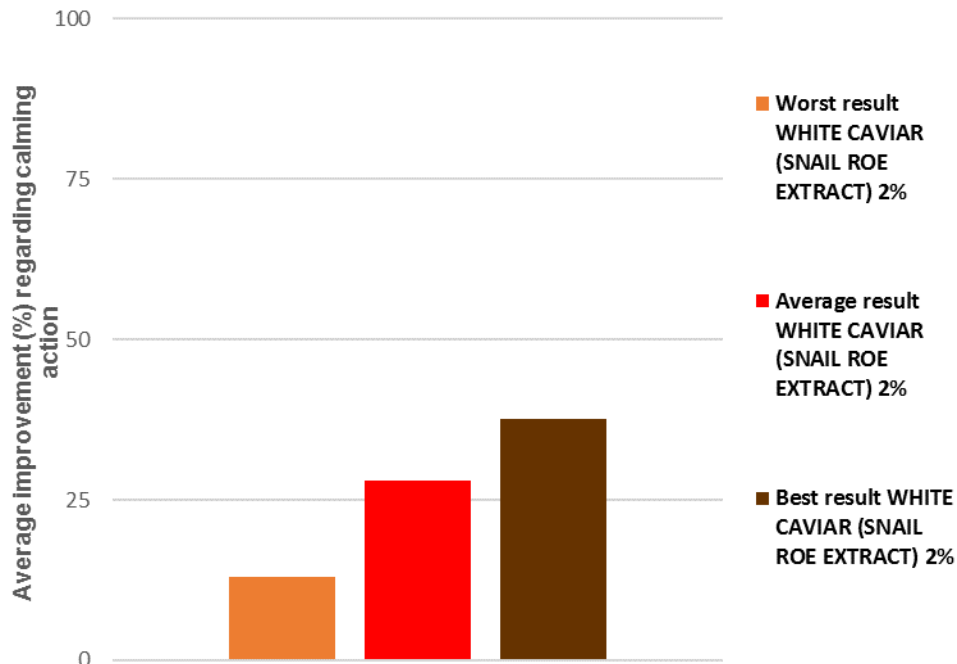
AS rank between 4 – 5: Excellent cosmetic result.



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## TECHNICAL DATA SHEET

### WHITE CAVIAR (SNAIL ROE EXTRACT) 2%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: **13%**.  
Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: **28%**.  
Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 2%: **37,5%**.

#### Results meaning:

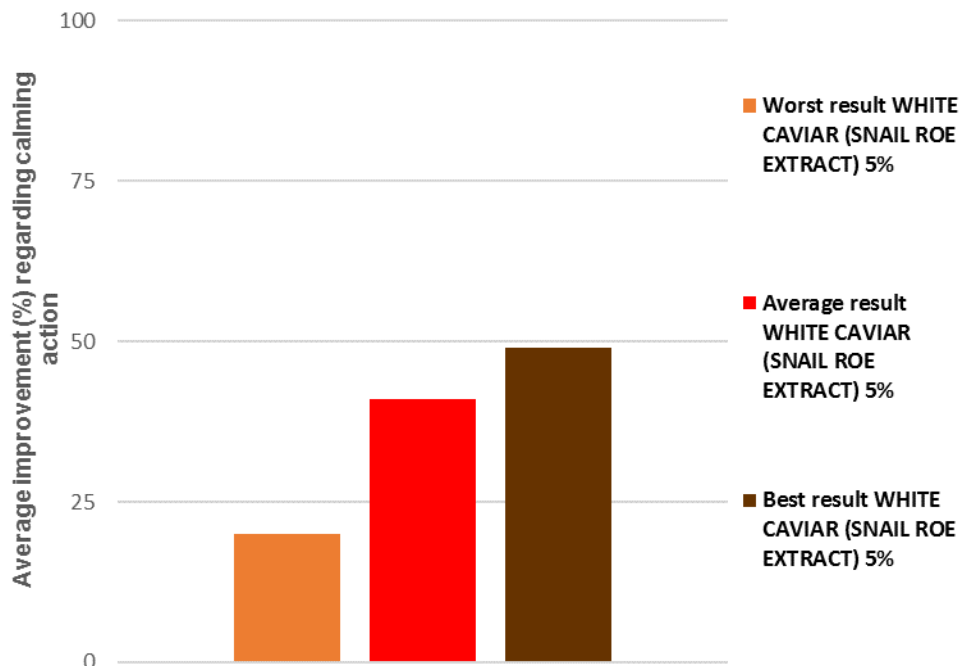
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AI rank between 21 – 40%: Slight improvement regarding placebo.  
AI rank between 41 – 60%: Appreciable improvement regarding placebo.  
AI rank between 61 – 80%: Great improvement regarding placebo.  
AI rank between > 81%: Excellent cosmetic result.



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### WHITE CAVIAR (SNAIL ROE EXTRACT) 5%



#### Results:

Worst result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: **20%**.  
Average result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: **41%**.  
Best result WHITE CAVIAR (SNAIL ROE EXTRACT) 5%: **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.