

BIOGRÜNDL, S.L.  
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## TECHNICAL DATA SHEET

# CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) / A / OS / E /



**Trade Name:** CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) / A / OS / E /.

**Product Code:** CLIPOPRAOSE.

**INCI Name:** GLYCINE SOJA OIL, CAVIAR EXTRACT, TOCOPHERYL ACETATE.

**INCI Status:** Conforms.

**REACH Status:** Low Volume Exemption.

**CAS Number:** 8001-22-7; Not available; 7695-91-2 / 58-95-7.

**EC Number:** 232-274-4; Not available; 231-710-0 / 200-405-4.

**Origin:** GLYCINE SOJA OIL: Vegetable origin.

CAVIAR EXTRACT: Animal origin.

TOCOPHERYL ACETATE: 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: None. Preservative Free. / Antioxidants: Tocopheryl Acetate. / Other additives: None.

**Solvents Used:** Soya oil.

**Appearance:** Clear or slightly opalescent liquid.

**Colour:** Characteristic (yellowish to deep brown).

**Odour:** Characteristic.

**Specific gravity:** 0,910 – 0,930 g/cm<sup>3</sup> (20°C approx.).

**Soluble/ Miscible:** Organic solvents and lipids.

**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:** Alipic, aged, dehydrated and/or with impurities skin preparations. Reffatening, revitalizing, anti-ageing and anti-wrinkle products. Dry, fragile and/or damaged hair treatment.

**Properties:** Moisturizing, nourishing, anti-ageing, vitaminizing and protective.

**Industrial packing:** 1Kg., 5Kg., 25Kg., 200Kg.

**Storage conditions:** It is very important to keep the product in well closed containers, away from direct sunlight at temperatures not over 25°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.

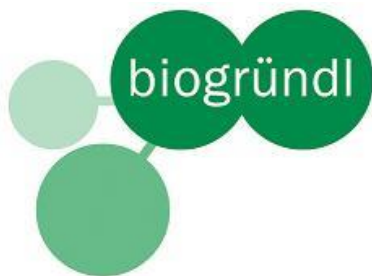
- Fitocosméticos ALVAREZ CRUZ i BAGUE SERRANO.

- 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

CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) by BIOGRÜNDL, S.L. is obtained starting with prepared caviar from eggs of various salmonids and caprinids which are generally grown in fish farms. Not from the sturgeon, from which authentic caviar is produced. Although, from the gastronomic point of view, caviar from sturgeon is much tastier, regarding composition, both are very similar.

CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) by BIOGRÜNDL, S.L. is obtained through an original extractive process with soya oil that carries the following active substances:

- Carbohydrates, including glucose, fructose, sucrose and glucogen.
- Proteins, containing 17 amino acids: Isoleucine, Lysine, Methionine, Cystine, Phenylalanine, Tyrosine, Threonine, Tryptophan, Valine, Arginine, Histidine, Alanine, Aspartic acid, Glutamic acid, Glycine, Proline and Serine.
- Lipids, triglycerides, sterols and phospholipids containing the following fatty acids: lauric, myristic, pentadecanoic, palmitic, palmitoleic, hexadecadienoic, stearic, oleic, linoleic, gadoleic, eicosapolienoic and erucic.
- Vitamins (A, B<sub>1</sub>, B<sub>2</sub>, B<sub>6</sub>, D, E and H).
- Minerals (P, Mg, Fe, Cu, Zn, I, Co, Si and F).

### USE AND DOSAGE

The incorporation in cosmetics of CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) by BIOGRÜNDL, S.L. is justified by its moisturizing, nourishing, anti-ageing, vitaminizing and protective properties.

Its use is recommended in preparations to treat alipic, aged, dehydrated and/or with impurities skin, thanks mainly, to the essential and sulfured amino acids it contains. Very appropriate, also, in reffatening, revitalizing, anti-aging and anti-wrinkle products. As well as, to treat dry, fragile and/or damaged hair.

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.

**Specific gravity:** 0,910 - 0,930 (20°C approx.).

**Solubility in water:** Fully insoluble.

**Solubility in other solvents:** Soluble in organic solvents and lipids. Insoluble in surfactants and in hydroalcoholic, hydroglyceric and hydroglycolic mixtures.

**Unsataponifiable:** Max. 1,5%.

**Acid value:** Max. 0,5 mg.KOH/g.

**Peroxides value:** Max. 10 meq.O<sub>2</sub>/Kg.

**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 1g.

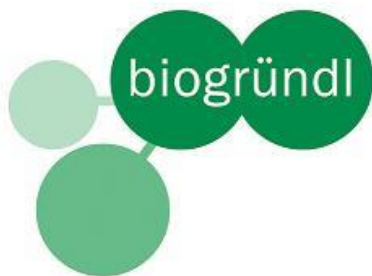
### DERMATOLOGY INNOCUOUSNESS

It was performed by the patch test (Patch test) on 10 volunteers. To this purpose, 15% CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 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 and at temperatures not over 25°C. In case of not having refrigerators, store the product in the coolest and free from artificial light area.

### **INCI DENOMINATION**

GLYCINE SOJA OIL, CAVIAR EXTRACT, TOCOPHERYL ACETATE.

### **EFFECTIVENESS TEST**

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

**Assayed parameters:** Anti-ageing action.

**N (volunteers):** 30 (18 ♀ and 12 ♂).

**Age (volunteers):** 30 – 72 years old.

**Left side part to be treated:**

Placebo, 30 volunteers, suitable cosmetic base.

**Right side part to be treated:**

CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%, 15 volunteers, suitable cosmetic base.

**Right side part to be treated:**

CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%, 15 volunteers, suitable cosmetic base.

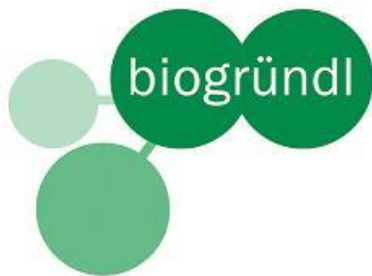


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### Assayed parameter:

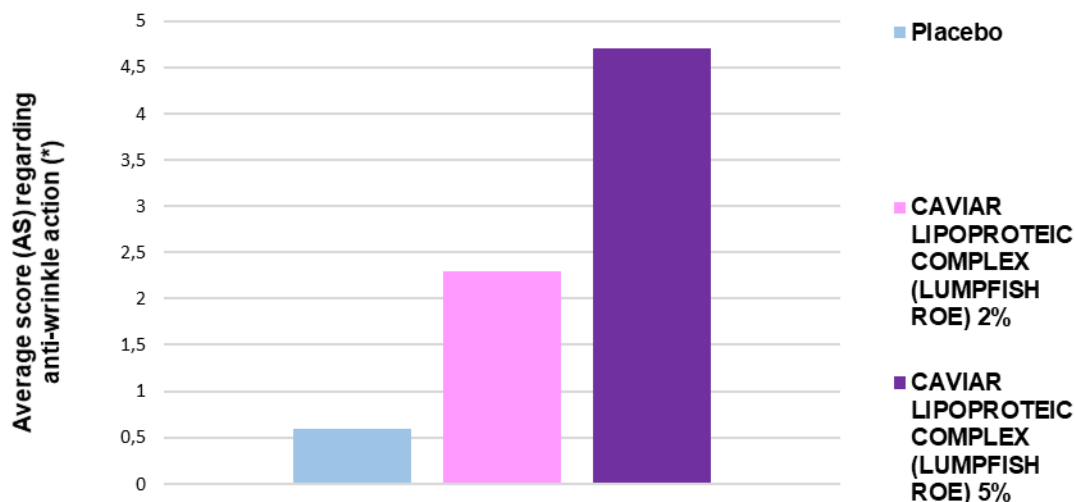
	Assay	N (volunteers)	Age (volunteers)	Placebo	CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%	CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%	Assay performed (Days)	Results measured (Days)
<b>Anti-wrinkle action</b>	Double blind spot trial and subsequent cosmetic evaluation.	N = 30 18 ♀ and 12 ♂	30 – 72	Left side part	Right side part 15 volunteers.	Right side part. 15 volunteers.	D = 30	D' = 1



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### SKIN CONDITION EVALUATION AFTER 30 DAYS



(\*) Anti-wrinkle action was determined by microscopic observation of depth and length of furrows, wrinkles and expression lines from volunteers.

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% CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) by BIOGRÜNDL, S.L., 5% CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) by BIOGRÜNDL, S.L..

#### Results meaning:

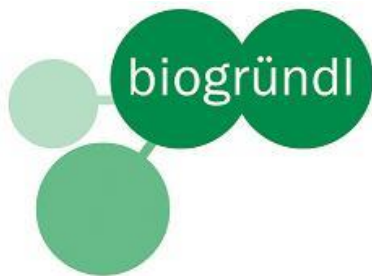
AS rank between 0 – 1: No significant changes.

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.

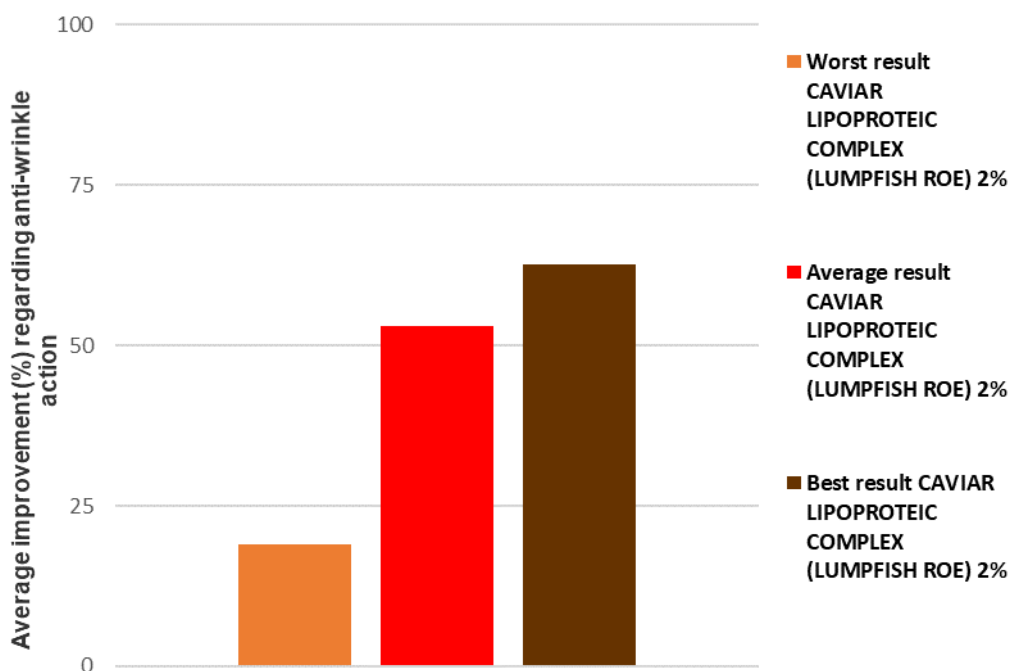
AS rank between 4 – 5: Excellent cosmetic result.



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### CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%

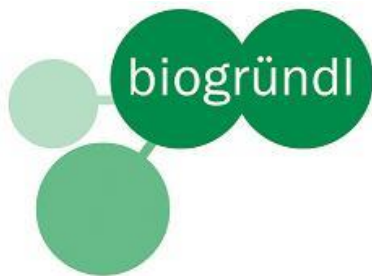


#### Results:

Worst result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%: **19%**.  
Average result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%: **53%**.  
Best result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 2%: **62,5%**.

#### Results meaning:

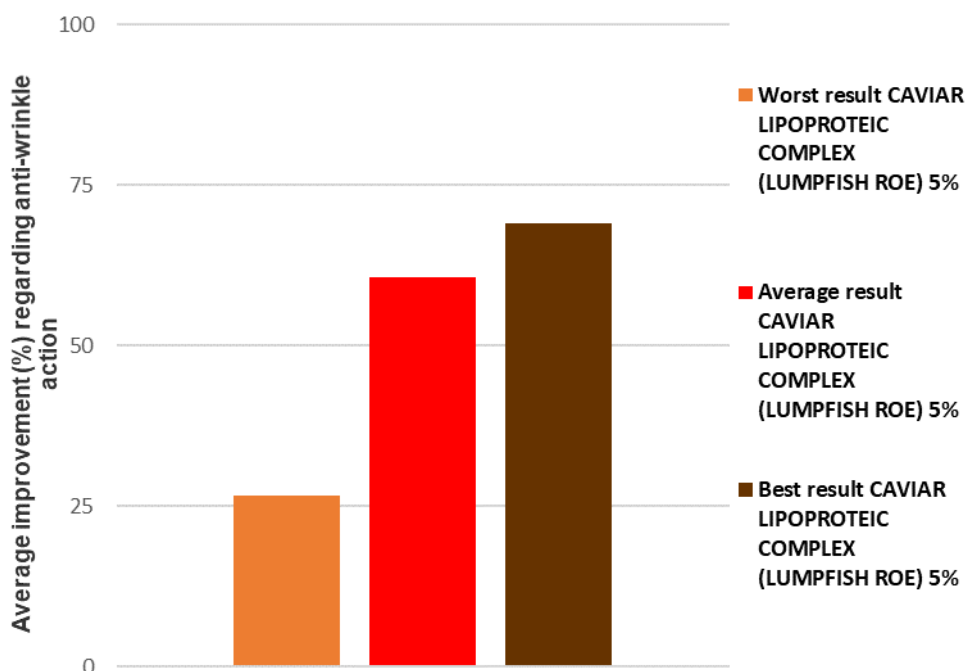
AI rank between < 20%: No significant changes.  
AI rank between 21 – 40%: Slight improvement regarding placebo.  
AI rank between 41 – 60%: Appreciable improvement regarding placebo.  
AI rank between 61 – 80%: Great improvement regarding placebo.  
AI rank between > 81%: Excellent cosmetic result.



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### CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%



#### Results:

Worst result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%: **26,5%**.  
Average result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%: **60,5%**.  
Best result CAVIAR LIPOPROTEIC COMPLEX (LUMPFISH ROE) 5%: **69%**.

#### 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.