



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

### **PHYTO OV PLUS** **/ A / OV / E /**

OV = (olive + vine)

#### **OVERVIEW**

The market escualanos, generally, do not present very notable features regarding their treating power and soothing or anti-aging actions.

BIOGRÜNDL, after a long series of investigations, provides PHYTO OV PLUS, a product of new concept, derived from two typical Mediterranean plants: olive and vine. It contains the following active ingredients:

#### **A) GRAPE SEED OILY EXTRACT**

Obtained by extraction with grape seed oil. The resulting extract contains the following components:

1) GRAPE SEED OIL, is the glyceryl ester of these fatty acids:

##### Saturated fatty acids

Palmitic acid	9
Stearic acid	3

##### Unsaturated fatty acids

Oleic acid	22
Linoleic acid	65
Linolenic acid	1

#### 2) POLYPHENOLS

Polyphenols are a kind of phytochemical components found in high concentration in wine, grapes and a wide variety of plants.

Natural polyphenols can range from simple molecules to large highly polymerized compounds (Figure 1.).

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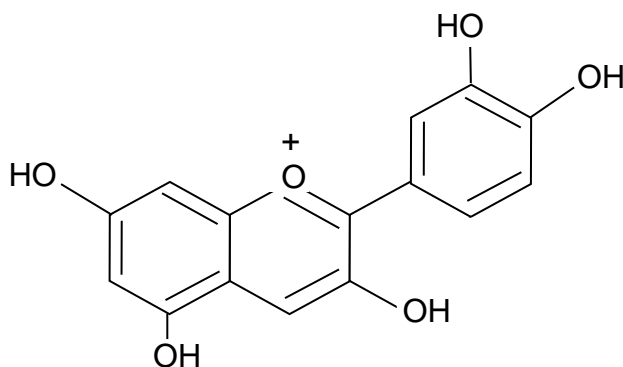


Figure 1. POLYPHENOL MONOMER

Differences in the chemical structure present variations in the biological properties. The main property of the polyphenols is its antioxidant power. They act synergistically with other antioxidants of the skin, such as A, C, E vitamins and beta-carotene, capable of delivering an efficient system.

Grape seed polyphenols also have the ability to join collagen and elastin, promoting cell health, elasticity and flexibility of the skin.

### 3) OLIGOMERIC PROANTHOCYANIDINS (OPC)

They are bioflavonoid compounds and they have been reported to be a powerful free radical scavenger, 20 times more potent than C vitamin and 50 times more powerful than E vitamin. They present a polymerization degree between 2 and 7. The generic structure of the anthocyanidin monomer is as follows (Figure 2.):

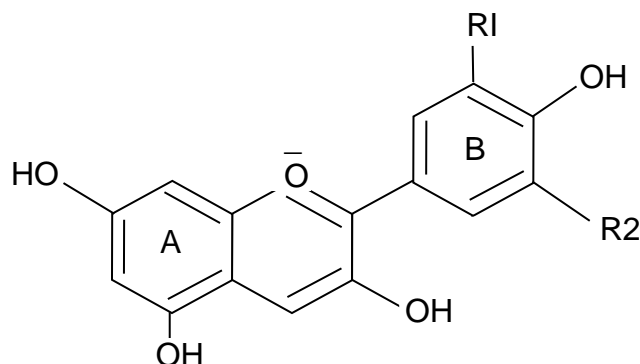


Figure 2. GENERIC ANTHOCYANIDIN STRUCTURE

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### 4) TRANS-RESVERATROL

It is a phytoestrogen present in the seeds of the grape in form of trans-3, 5, 4'-trihydroxystilbene (Figure 3.).

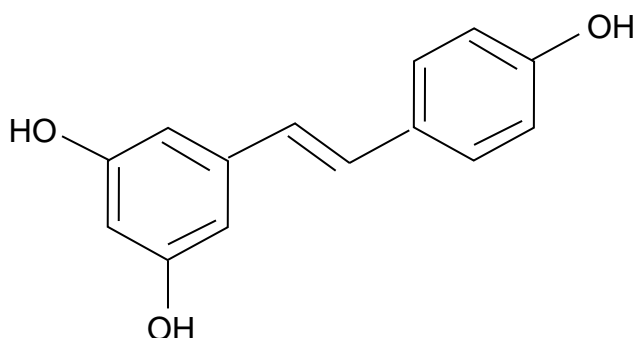


Figure 3. STRUCTURE OF TRANS-RESVERATROL

The physiological benefits of this phytoestrogen are very broad. Its antioxidant effect provides some degree of protection against what might be called “oxidative stress”. On the other hand, it is largely responsible for protective effects on blood vessels (P vitamin).

### B) OLIVE TREE LEAF OILY EXTRACT

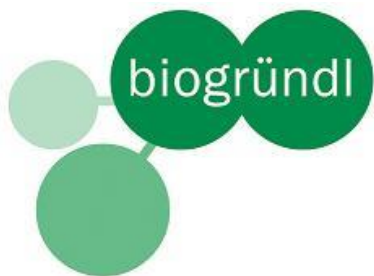
It is obtained by extraction with olive oil. The resulting extract contains the following components:

#### 1) SPANISH EXTRA VIRGIN OLIVE OIL

Obtained from the first expressed of the fruits of the tree *Olea Europea*. It is the glyceric ester of the following fatty acids :

##### Saturated fatty acids

Palmitic acid	12,0
Stearic acid	3,0
Arachidic acid	0,4



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### Unsaturated fatty acids

Palmitoleic acid	1,0
Oleic acid	74,0
Linoleic acid	9,6

Its physico-chemical data accomplishes the European Directive 2568/91 for Extra Virgin Olive Oil.

### 2) OLEUROPEIN

It is a bitter principle from olives and leaves of the olive tree (Figure 4.). It is a potent vasodilator and hipotensive agent. It increases the skin metabolism and has a perceptible anti-ageing effect.

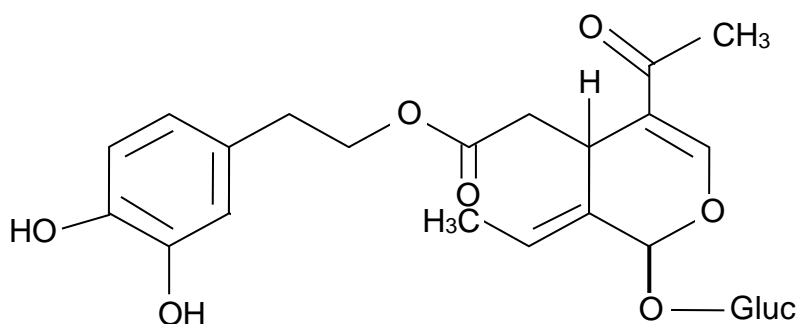


Figure 4. OLEUROPEIN

### C) PHYTOSTEROLS

They are the unsaponifiable part of the product. They are sitosterol, campesterol and stigmasterol (Figure 5.), and they present protective and regenerative actions for the skin.

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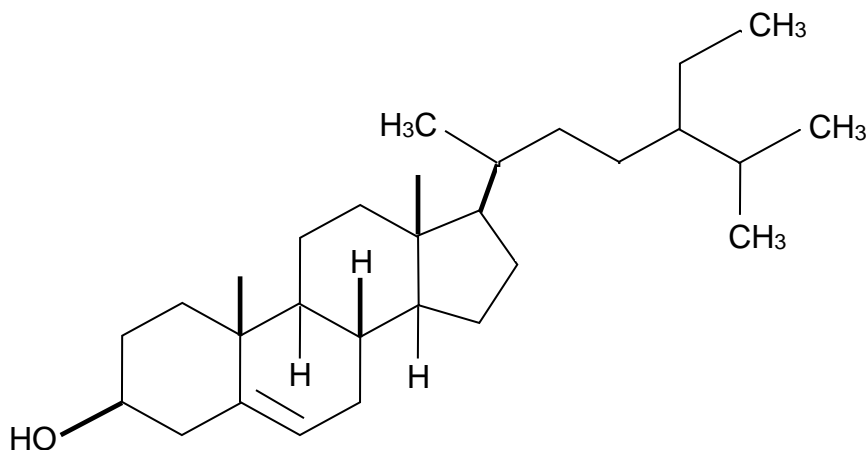


Figure 5. SITOSTEROL

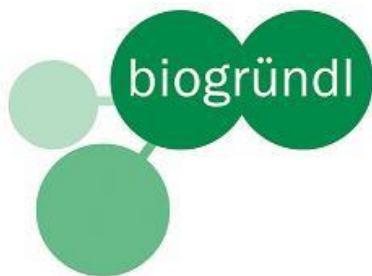
### D) VITAMINS

Specially E vitamin. It has antioxidant properties.

### PROPERTIES

The most significant actions of PHYTO OV PLUS of BIOGRÜNDL, S.L. are:

- Decongestive, anti-inflammatory and vulnerary properties.
- Prevention and control of sunlight damages on the skin. Antierthema and vasoprotective properties.
- Neutralizes lipid peroxides and free radicals.
- Anti-ageing properties. Inhibits hyaluronidase, elastase and collagenase, which can degrade connective tissue structures of the skin.
- Hair protective properties.



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### USE AND DOSAGE

The most important applications of PHYTO OV PLUS of BIOGRÜNDL, S.L. are in the following products :

- Anti-ageing creams and lotions.
- Anti-wrinkle emulsions and oils.
- Mixture which others antioxidant products (vitamins A, C, E vitamins, beta-carotene, selenium, zinc) which help to reinforce its action.
- Decongestive, anti-inflammatory and anti-oedema treatments.
- Anti-erythematic, vasoprotective and anti-redness products.
- Care of sensitive, dry and untuned skins.
- Prevention and control of actinic and physiological ageing, added to sun protection creams and oils.
- Decorative products and protective lipsticks.
- Preparations for hair care.

The recommended concentrations of use are between 5% and 30%.

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Colour:** Characteristic.

**Odour:** Characteristic.

**Specific gravity:** Between 0,900 and 0,940 (at 20°C aprox.).

**Solubility in water:** Fully insoluble.

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

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

**Saponification value:** 180 to 200.

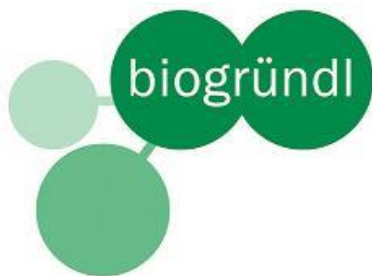
**Iodine value:** 125 to 140 g.I<sub>2</sub>/100g.

**Other information:** None.

**Total aerobics:** Max. 300 microorganisms / gram.

**Fungi and yeasts:** Max. 200 microorganisms / gram.

**Pathogens:** Total absence in 1g.



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### **DERMATOLOGY INNOCUOUSNESS**

It was performed by the patch test (Patch test) on 10 volunteers. 30% of PHYTO OV PLUS of BIOGRÜNDL 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 and at temperatures not over 25°C.

### **INCI DENOMINATION**

VITIS VINIFERA SEED OIL, OLEA EUROPAEA SEED OIL, CAPRYLIC/CAPRIC TRIGLYCERIDE (OCTYLDODECANOL), OLEA EUROPAEA LEAF EXTRACT, VITIS VINIFERA SEED EXTRACT, TOCOPHERYL ACETATE.