

## Latest generation molecule for risk free weight control

### **Safety**

The Poly N-Acetyl Glucosamine was used for over 30 years due to its harmlessness, as part of different formulations. Due to several studies carried out in the 80s, essentially by the Japanese, its great capacity for trapping lipids was discovered, which together with its great pharmacological tolerance convert it into highly important active principle in weight and lipid control.

Recently, obtainment of this polymer from marine plankton with greater purity enables a more efficient use.

Today we have a Poly N-Acetyl Glucosamine with 99% molecule purity presented in 100 Mesch microparticles, providing it with a greater lipid absorption surface.

Poly N-Acetyl Glucosamine dissolves in stomach acid, traps lipids and due to the intestinal PH variation forms a gel wrapping them thus impeding their absorption because they could not be metabolised by pancreatic enzymes. It is not absorbed therefore it has neither systemic actions nor acts on the CNS. It does not interfere with pancreatic enzymes and therefore does not alter digestion problems or produce diarrhoea or faecal incontinence.

### **Efficacy**

**BiNarval®** incorporates per capsule:

- **Poly N-Acetyl Glucosamine**, extracted from marine plankton with 99% molecular purity and 100 Mesch microparticles.
- **Sodium ascorbate.**
- **Fructo-oligosaccharides.**

The synergy between the **BiNarval®** components makes it a very efficient product.

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**BiNarval** ® enables entrapment of up to 60% of lipids, subtracting a significant amount of ingested kilocalories. Thus the use will be higher than the energy contribution leading to lipolysis rapidly reflected in the loss of abdominal fat and reduction of waist circumference and loss of excess weight.

Recent studies demonstrate excess abdominal weight, i.e. waist circumference is directly related to increase in metabolic complications affecting the cardiovascular system. Therefore, **women** whose **waist exceeds 88 cm.** and men's' **exceeds 102 cm.**, although their BMI is normal should correct the excess abdominal fat.

The lipid trapping process is due to the **poly N-Acetyl Glucosamine**, presenting a positive charge, joins the fatty acids which have a negative ion charge. Neutral fats (cholesterol and triglycerides) are absorbed by hydrophobic fats. Once the two molecules have jointed, absorption of this new macromolecule is unviable, thus travelling the digestive system until final elimination through faeces.

Sodium ascorbate has a synergy action with poly N-Acetyl Glucosamine since its viscosity is reduced in the stomach increasing flexibility of gel forming at intestinal level, reducing the possibility of the gel allowing the fat to escape through the intestinal tract.

Fructo-oligosaccharides (Actilight ®) exercise a bifidogenic action, since they lead to a certain acidification of intestinal PH favouring development of acidophil strains (bifidobacteria and lactobacillus) in detriment of pathogenic bacteria. They help maintain the natural balance of both intestinal flora and boost synergic action of other **BiNarval**® components on improving bowel movement, favouring fat elimination. They are not counter-indicated for diabetics. They neither increase glucose nor insulin levels in blood.

### **Weight control**

Among others the causes of overweight are: the excessive intake of food which provides a high level of kilocalories, lack of exercise and some endocrinological alterations requiring clear diagnosis and specific treatment.

Visible fats like: oil, butter, pork or lamb fats, and margarine are easily detectable, although difficult to avoid. Others less perceptible, those present in food like meat, dairy products, buns, pre-cooked dishes and sauces are less detectable, yet provide the most kilocalories on intake.

These non-perceptible fats may represent over 100 g/day, i.e. 30-40% of an adult's conventional energy ration.

Reducing food intake and sating appetite are not always feasible. Some people become frustrated when trying to change their dietary habits.

Eliminating lipid excess is not easy for people use to it. For many of these people maintaining a balanced, restrictive diet a long time may represent an unbearable sacrifice. Furthermore, they frequently recover weight lost through sacrifice in a short time.

Furthermore, diets followed without medical control frequently cause shortages of vital elements, real demand of vitamins, basic proteic and prosthetic groups; malnutrition which may sometimes be serious.

**BiNarval®** enables weight loss without going on excessively strict diets.

Apart from the aesthetic aspect due to accumulation or excessive intake of kilocalories, one has to consider the high risk of increasing the level of cholesterol and other seric lipids. This also translates in an increase in pathologies associated with overweight, like HBP, diabetes and cardiovascular illnesses.

**BiNarval®** exercises a hypolipodemic effect, enabling recovery of elongase and desaturase enzyme activity involved in seric lipid metabolism. Taking into account, that in addition to cholesterol and triglycerides, it is also important to control: myristic, oleic, palmitoleic, arachidonic, arachidic, estearic, elaidic,  $\alpha$  linoleic, linolenic and EPA acids; likewise apolipoproteins A<sub>1</sub> and B.

#### **Presentation**

- **BINARVAL425mg**: tub of 90 tablets  
C.N. 239665
- **BINARVAL PLUS**: box of 60 capsules  
C.N. 304931

**Sold exclusively in pharmacies**

#### **How to use**

##### **BiNarval® 425 mg**

Take 2 tablets with water immediately before lunch and dinner. Maintenance:  
Take 1 tablet with water immediately before the main meals.

**BiNarval® Plus**

Initial: Take 1 capsule with water immediately before lunch / dinner.

Maintenance: Take 1 capsule with water immediately before the main meal.

In resistant cases the use of **BiNarval®** may be continued until the desired parameters are under control.

***“Your doctor or pharmacist will always be your best reference”***