

VIGORBITAL®

A new Food Supplement aimed at improving energy yielding metabolism, muscle and cardiac functions, and protein synthesis

Product Presentation

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BLYMUM is an Italian company based in Milan providing services, products and knowledge for those Companies specialized in developing, producing and marketing food supplements, functional foods, novel foods, nutraceuticals, cosmetics and medical devices, and for those Companies strategically focused on social and workplace sustainability.

Our mission is to contribute to people's health, physical and psychological wellbeing, longevity and beauty.

smart well-being modulations



Both within our selected services and product development,

we apply the **distinctive methodology and philosophy to health, life habits correction, people's care and wellbeing improvement - Physiological Balance Management.**

It is mindset, structured and customized under the brand **Livella®** and it is based upon the idea that wellness and health are given by a specific physiological balanced status of the human organism.

health, life habits, and smart well-being departments

BLYMUM SERVICES AND PRODUCTS

SERVICES

SERVICES

BLYMUM offers professional support to Pharmaceutical, Food, Healthcare and other Clients in the following areas: Clinical Trials Management; Regulatory Compliance; Market & Customer Insights; Sustainable Impact Modeling; Change Management & Mentoring.

PRODUCTS

PRODUCTS

In parallel, we are directly involved in product innovation processes.

The BLYMUM distinctive feature lies in the development of Physiological Modulators, that are scientifically proven solutions for specific human psychophysical problems, pathological phenomena and adverse living and working conditions:

BLYMUM Food Supplements; On-demand Formulation Development.

A NEW PRODUCT FOR WOMAN HEALTHCARE

- In terms of products, the distinctive company's competency lies in the development of **Physiological Modulators** that ensure health, avoid preventable diseases and undertake a balanced state of body and mind.
- In particular BLYMUM is developing and proposes different types of Physiological Modulators, such as **Food Supplements, Novel Foods, Functional Foods, Cosmetics and Nutraceutical Products**.
- Today BLYMUM is introducing on the market a new product within its LILLA LINE dedicated to woman healthcare and well-being:



MAIN BENEFITS OF VIGORBITAL®

Problem Solving:

VIGORBITAL® is a Food Supplement,
indicated for
the harmonization of energy yielding metabolism,
and for the **regulation**
of muscle and cardiac functions.

Furthermore, it gives an important
support
to the protein synthesis
in the female organism.

Target:

Females

LEADING ADMINISTRATION CONDITIONS: ENERGY YIELDING METABOLISM

- The Vitamin B group participates to more than 400 metabolic processes and usually it is called “Energy Vitamins”.¹
- **VIGORBITAL**[®] contains the Vitamin B group, essential for the energetic metabolism as its restricted intake compromises the physical performance as shown by a significant decrease in the anaerobic power and blood lactate accumulation².
- Even a moderate exercise training increases the elimination of Vitamin B group in urines, particularly when it is consistent with a daily training program³. The administration of **VIGORBITAL**[®] allows the transformation of components contained in foods into rapidly available products to generate energy.

¹Lukaski HC Nutrition 2004;20:622-644.

²van der Beek EJ et al J Am Coll Nutr 1994;13:629-640.

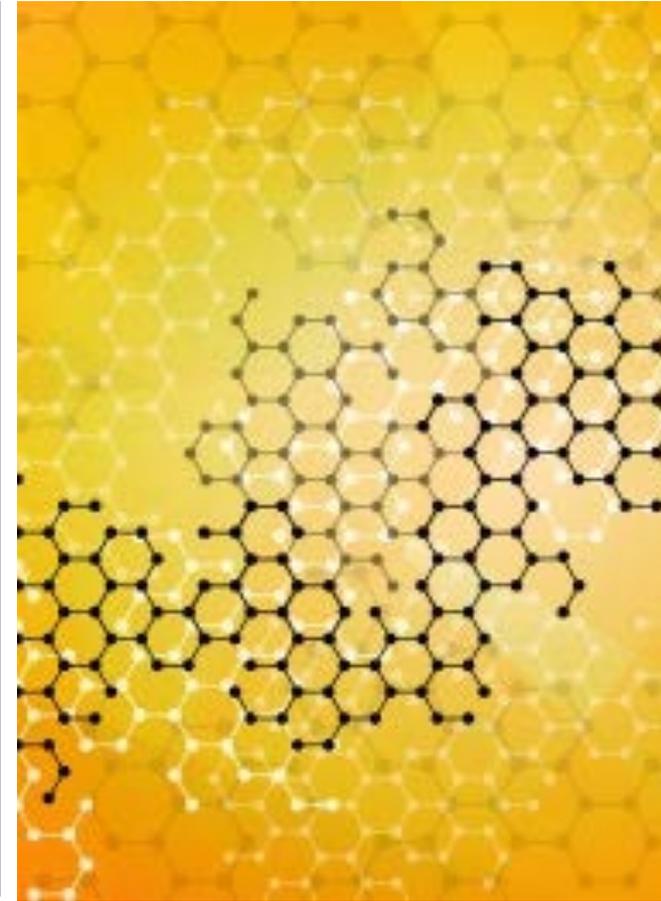
³Kim YN et al. Nutr Res Pract 2015;9:43-48.



LEADING ADMINISTRATION CONDITIONS: PROTEIN SYNTHESIS

- The protein synthesis needs all the amino acids availability. Whereas the essential amino acids can be obtained by food intake only, the so called dispensable or non essential amino acids derive from the metabolism of some other amino acids acting as precursors. Protein synthesis can be optimal when the amino acid precursors can be transformed one into another¹.
- The administration of **VIGORBITAL**[®] that contains the vitamin B group, supports this process very efficiently.

¹Dwight EM. Modern nutrition in health and disease 10th Ed 2006 Lippincott Williams&Wilkins: 23-61.



LEADING ADMINISTRATION CONDITIONS: MUSCLE FUNCTIONS

- The skeletal muscles are made of several contractile proteins in appropriate relation one other. As a consequence their production and maintenance belongs to the capacity of protein synthesis. The administration of **VIGORBITAL**[®] contrasts the deficiency of vitamin D that is necessary for the muscle function in terms of force, power production, and it increases the recovery time from training¹, acting as an ergogenic.
- Myoglobin, which is the muscle oxygen transporter, needs the availability of iron to bind the oxygen necessary for any energetic function². **VIGORBITAL**[®] contributes to an appropriate iron integration and maintains the myoglobin production.

¹Dahlquist et al. J Int Soc Sports Med 2013;12:33-45.

²Bex T et al. Front Nutr 2015;2:13-21.



LEADING ADMINISTRATION CONDITIONS: CARDIAC FUNCTIONS

- The heart is the most active muscle in our body and its efficiency belongs to the contractile apparatus combined to the vascular support. Vessels need to be continuously regenerated and vascular repair is one of the most important mechanism for the cardiac function. Vitamin D was shown to promote the vascular repair¹.
- The vascular tone needs the production of nitric oxide (NO) which regulates the degree of contraction of vascular smooth muscle cells. However, NO is also one of the most common reactive species and is capable to produce oxidative stress in case of an imbalance between oxidation and antioxidant defenses.
- Vitamins (Vitamin B group, Vitamin A) and trace minerals with direct or indirect antioxidant activity (vitamin D, Zinc), present in **VIGORBITAL**[®] formula, protect the heart from oxidative stress particularly during physical training.

¹Wong MS et al. Circulation 2014;130:976-986.



LEADING ADMINISTRATION CONDITIONS: EFFECTS OF COMBINATION



According to the concepts of **Physiological Modulation**, all the components that are necessary to maintain a healthy energy metabolism need to operate in parallel to avoid unnecessary dysfunctions.

Usually the tendency is to use single or few components, administered at high dosages ending up with effects that may impair the necessary equilibrium. This is the reason of the preparation of a complete formula containing all the most important natural regulators given at low but appropriate dosages to support the energy metabolism.

SCIENTIFIC PUBLICATIONS

Vitamin and Mineral Status: Effects on Physical Performance.

Lukaski HC Nutrition 2004;20:622-644.

Marginal deficiencies of thiamin, riboflavin, vitamin B-6 and vitamin C: prevalence and functional consequences in man.

van der Beek EJ et al J Am Coll Nutr 1994;13:629-640.

Vitamin E status of 20- to 59-year-old adults living in the Seoul metropolitan area of South Korea.

Kim YN et al. Nutr Res Pract 2015;9:43-48.

Proteins and Aminoacids.

Dwight EM. Modern nutrition in health and disease 10th Ed 2006 Lippincott Williams&Wilkins: 23-61.

Plausible ergogenic effects of vitamin D on athletic performance and recovery.

Dahlquist et al. J Int Soc Sports Med 2013;12:33-45.

Exercise training and beta-alanine-induced muscle carnosine loading.

Bex T et al. Front Nutr 2015;2:13-21.

Vitamin D Promotes Vascular Regeneration.

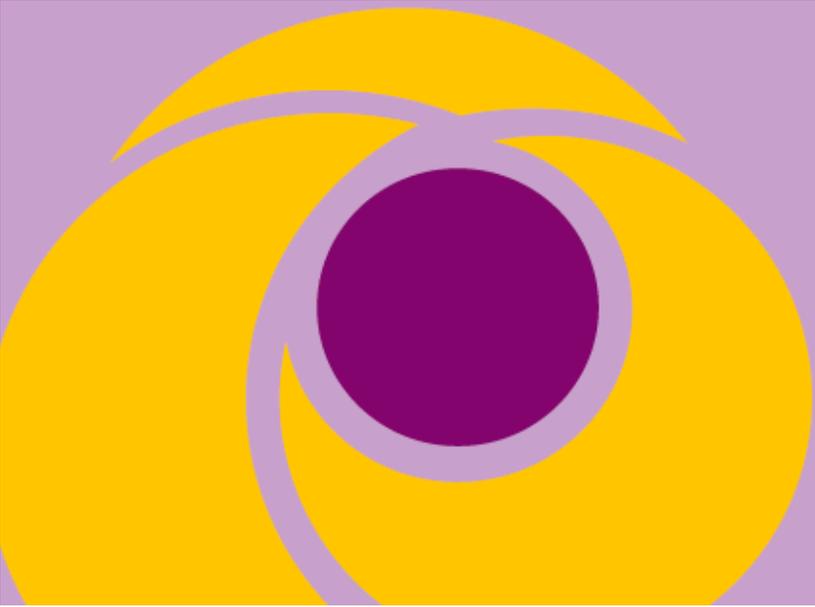
Wong MS et al. Circulation 2014;130:976-986.

VIGORBITAL® FORMULATION AND PROPERTIES

- VIGORBITAL® is a food supplement conceived to support the energy yielding metabolism and to sustain the muscle and cardiac functions. It contributes also to normal protein synthesis.
- VIGORBITAL® contains:
 - **Ginseng** to invigorate from tiredness and fatigue;
 - **Vitamin B1** contributes to the normal function of the heart;
 - **Vitamin D, Magnesium, and Potassium** contribute to the maintenance of normal muscle function;
 - **Vitamin B2, Vitamin PP, Vitamin B6, Vitamin B12 and Iron** contribute to normal energy-yielding metabolism;
 - **Zinc** contributes to normal protein synthesis;
 - **Vitamin A** contributes to the normal function of the immune system.



COMMERCIAL CLAIMS



metabolismo energetico
energy yielding metabolism

funzione muscolare e cardiaca
muscle and cardiac function

sintesi proteica
protein synthesis

VIGORBITAL® ON THE MARKET

- Box of 10 RewCap™ 10 mL vials
- Administration: 1 vial/per day
- Warnings: Do not administer to patients with diabetes. Do not use in children and pregnant women, or for prolonged use without consulting with a doctor. Do not exceed the recommended daily dose. Keep out of reach of children under 3 years of age. Dietary supplements are not intended as a substitute for a varied and balanced diet and a healthy lifestyle. Store in a cool, dry place at room temperature and away from sunlight.



REWCAP™ DOSING TECHNOLOGY

- **VIGORBITAL®** exploits the patented RewCap™ technology (rewcap.com) that allows to combine the solid phase to the traditional liquid phase in a revolutionary way, offering different advantages:
 - superior protection against moisture: high thickness polyethylene layer at bottom and aluminum seal on the top;
 - handy and simple;
 - increased stability of active ingredients.
- The novelty and originality of this capsule has also been recognized by the completely positive research report, issued by the European Patent during procedures for the international patent protection: Italian Patent Pending No. MO1014A000140, Worldwide Patent Pending No.PCT/IB2015/052052.



VIGORBITAL® INGREDIENTS



REWCAP™ Content



Ginseng (Panax ginseng, radix) d.e. titl. 5% in total ginsenosides, Thiamine chloridrate, Riboflavin, Niacin, Pyridoxine chloridrate, Vitamin B12, Calcium pantothenate, Iron gluconate, Zinc pidolate, Vitamin A, Vitamin D, Creatine, Maltodextrin, Silica (aerosil), Magnesium stearate

Vial Content



Potassium sorbate, Sodium benzoate, Pollen in honey, L-arginine, L-carnosine, Magnesium citrate, Fructose, Xanthan gum, Energy red Giotti flavour, Citric acid, Water

PACKAGING



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