

EUGEDIN COMPLEX

Natural Immune Boost

Innovative natural blend of plant extracts formulated to boost the function of the immune system



Spermidine



Eugenol



Vitamin D



What is Eugedin Complex?

Eugedin Complex is an innovative natural blend of plant extracts formulated to boost the function of the immune system. The product formulation combines three main ingredients, wheat germ extract (*Triticum aestivum*, seeds) naturally enriched in spermidine, clove oil (*Syzygium aromaticum*, dried buds) titrated in Eugenol and Vitamin D. The ingredients work together to enhance autophagy, one of the key defence mechanisms against viral infections. The product is a raw material that can be used alone or in combination in other food supplements.

Main ingredients

Spermidine is a polyamine, an organic compound, that is found in wheat germ, green pepper, cauliflower, broccoli, mushrooms, soy products, corn, whole grains and different varieties of cheese. It is a powerful antioxidant and anti-inflammatory and plays a significant role in the metabolism of cells, stabilises DNA, RNA and protein synthesis and contributes to longevity.

Eugenol is the main extract derived from clove buds. It has strong antimicrobial, antiviral, anti-pyretic and anti-inflammatory properties. It has been used successfully in vitro as an antiviral agent against the Ebola virus. Eugenol is also one of the molecules that in silico studies has been shown to effectively bind the SARS-COV-2 spike protein.

Vitamin D is innate in the human body and is activated during sunlight exposure. It is also found in a small number of foods such as fatty fish, liver, egg yolks, mushrooms and fortified foods. Among its many roles in the body, vitamin D has been found to reduce inflammation and modulate processes such as cell growth and immune function.





Competitive advantage

The Eugedin Complex innovation and competitive advantage lies in its ingredients synergetic effect in boosting the body's autophagy process, the process that allows the cells to fight viruses. In vitro trials carried out by the most ancient university in Europe (UniBO), confirmed that the active ingredients activate autophagy in different cell types - including intestinal, dermal, monocytes, human epithelial bronchial, and human endothelial cells.

Product development

The product was initially developed as part of the European Institute of Technology Food project, SPIN and was co-funded by the European Union. University of Bologna designed and tested the product formulation and Targeting Gut Disease (TGD), a spin-off entrepreneurial company from the University of Bologna, commercialised it as a food supplement in February 2021. TGD's next commercialisation strategy step is to launch Eugedin Complex as a raw material.

Dosage in the mix

Eugedin Complex contains clove oil, wheat germ as a source of spermidine and vitamin D. The daily recommended dose of this particular supplement raw material is 2 grams/day, corresponding to 380 micrograms of clove oil (304mg of Eugenol), 48 micrograms of Vitamin D (a daily admitted, dose for food supplements) and 16 micrograms of spermidine.

Product form and packaging

Eugedin Complex is a raw material in the form of powder. The product is packaged into plastic bags or metal barrels.

For more information please contact us at sales@eugedincomplex.com

