

Lutein is a naturally occurring carotenoid. Lutein is employed by organisms as an antioxidant and for blue light absorption.

Lutein is found in its free form, meaning that it does not have any other types of molecules attached to it.

On the other hand, **Lutein** found in flower petals is chemically bound to various types of fatty acids.

In these cases it is said that Lutein is esterified and is commonly known as **Lutein Ester**

Free Lutein and Lutein Ester consumed as food and food supplements have similar bioavailability as reported in several scientific studies on humans.

These studies have shown that Lutein Ester is equally absorbed as free Lutein by the body. Lutein Ester is hydrolyzed in the digestive tract and converted into free Lutein as it passes through the gut and then it is delivered to the blood flow and to the different tissues where it is deposited such as the eye macula.

In fact some of the studies conducted to determine the effect of lutein supplementation on the eye macula pigment showed that supplementation with Lutein Ester produced an increase in the density of the macular pigment as well as an increase in the concentration of lutein in blood serum.

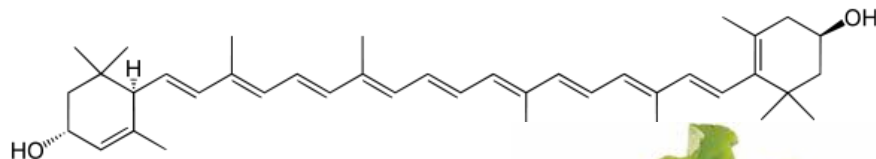


Figure 1 : Chemical Structure Lutein



For more information please visit www.bio-gen.in

PRODUCT AVAILABILITY

We manufacture the following grades:

Lutein Oil - Ester (For Softgel Capsule Formulation) - 5%, 10% 20% & 40%

Lutein Powder - Ester (For Tablet / Two-Piece Hard Shell Caspule Formulation) - 5%, 10%, 20% & 40%

Lutein Powder - Free (For Tablet / Two-Piece Hard Shell Caspule Formulation) - 5%, 10%, 20%, 40% & 75%