

Nutriline-Lutein

PURE MARIGOLD EXTRACT

SEE CLEARLY

Nutriline-Lutein is pure and concentrated esterified lutein extracted from marigold flower petals (*Tagetes erecta* Compositae) by Novo's patented extraction process and is a rich source of healthful phytonutrients. Packed with the powerful antioxidant lutein (a naturally occurring phytonutrient), Nutriline-Lutein reduces health risks in the elderly since lutein does not regenerate and its intake is through dietary sources only. Novo's patented extraction process gives Nutriline-Lutein the antioxidant edge, which is evident in its longer shelf life as well as increased bioavailability to the user, making Nutriline-Lutein highly effective even in low doses. Nutriline-Lutein is available as Lutein Esters 5-20% (powder form) and Lutein Esters Extract (soft paste form).

Product Code	Lutein Ester content	t-lutein content	Moisture	Remarks
LE 001	40%	20%	<0.5%	Extract
LE 002	30%	15%	<0.5%	Extract
LE 003	20%	10%	<0.5%	Extract
LE 004P	20%	10%	<0.5%	Granular powder
LE 005P	15%	7.5%	<0.5%	Granular powder
LE 006P	10%	5%	<0.5%	Granular powder
LE 007P	5%	2.5%	<0.5%	Granular powder

Health Benefits of Lutein

Lutein, a carotenoid (a powerful group of antioxidants), performs two main functions along with zeaxanthin, an isomer of lutein that is always found with lutein.

- ▶ It quenches free radicals and guards against irregular cell growth.
- ▶ Filters highly damaging ultra violet light and protects the eye and skin.

Lutein supplementation is beneficial since it,

- ▶ Improves eye function. Slows progression of Age related Macular Degeneration (AMD) the primary cause of blindness. Adds to the macular density and guards against eye diseases such as, cataract and glaucoma.
- ▶ Reduces cancer risk especially of lung, skin, cervix, breast and colon.
- ▶ Effective against atherosclerosis. Studies indicate that high lutein levels are linked with less thickening of arterial walls. Lutein is found in HDL (good cholesterol) and may prevent LDL from oxidizing due to its antioxidant effect.
- ▶ Reduces skin lesion risk. Studies indicate that lutein supplementation may inhibit DNA damage by UV-B radiation and diminish its inflammatory effects.

Lutein Esters - Benefits

Studies indicate that Lutein esters,

- ▶ Produce increase in the density of the macular pigment in the retina, as well as increase in concentration of lutein in blood.
- ▶ Contain 3-4% zeaxanthin esters, which add to the carotenoid profile of the natural lutein ester.
- ▶ Is natural i.e. it exists as lutein ester in marigold flowers.



Novo's SCFE Process for Superior Product

Nutriline-Lutein is produced at Novo's 1000 tpa Super Critical Fluid Extraction (SCFE) plant in India. The SCFE process is widely regarded as the best process for extraction.

- ▶ It extracts lutein such that it remains intact and at its highest level of concentration and purity.
- ▶ Concentrated extract is exclusively composed of the raw material ingredients and can be used in low dosage.
- ▶ Concentrated extracts can be easily assimilated by the human body.
- ▶ The process is gentle on active ingredients since extraction is at high pressure and low temperature and creates no environmental hazards.
- ▶ The extraction agent, CO₂, is GRAS certified, non-toxic, non-flammable and acceptable for use in food and beverages.
- ▶ CO₂ is free of bacterial content and microbiological activities.

For enquiries please contact our representative at:

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