







Vegan & Vegetarian



Solvent & Pesticide Free



Allergen Free



**LUTEIN (FREE & ESTER)** 



**ZEAXANTHIN** 

A rapidly ageing global population and an increased need to support better vision, cognition and healthy ageing worldwide has seen an increase in the demand for dependable natural ingredients that can improve the quality of life.

While many ingredients focus on addressing these issues individually, there has never been a stable ingredient that offers multiple benefits while being suitable for a variety of end applications.

Our globally trusted and cost-effective ingredients Lute-gen® & Zea-gen®- high-quality Lutein & Zeaxanthin from Marigold (Tagetes erecta) are grown responsibly through our transparent seed-todrum program, processed in our GMP-certified plant in Bangalore, India and available around the world.



Certified Kosher





Patent Pending



Drug



Long-term and accelerated stability studies available for Lute-gen® & Zea-gen® in oil, powder and beadlet forms.

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure or prevent any disease.





Lute-gen® Lutein (Free & Ester) & Zea-gen® Zeaxanthin are both derived from the Tagetes erecta species of Marigold flowers under a unique seed-to-drum program in which the supply chain is fully integrated, offering complete traceability and transparency of the entire process.

The Non-GMO Project Verified Lute-gen® & Zea-gen® are free of pesticides and residual solvents making them clean-label products in every aspect. Developed to be highly stable in oil, powder & beadlet forms, Lute-gen® has been researched **extensively** for its potential in various areas related to overall health and well-being. We have also established its potential for a variety of end-applications with promising results.



Recommended Daily Intake: Lutein 10mg & Zeaxanthin 2mg Current Daily Intake: 1.7mg Lutein & Zeaxanthin

The recorded average intake of Lutein & Zeaxanthin is 1.7 mg from diet alone<sup>1</sup>. Therefore, there is a need to bridge this gap through supplementation.

Lute-gen® & Zea-gen®, some of which are:

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# EYE HEALTH (1)

degeneration. We are studying Lute-gen® extensively for its role in improving Macular Pigment Optical Density.

### Study Details:

EYE HEALTH BEYOND AREDS

A randomized, double blind, placebo controlled, three-arm study to evaluate the safety & efficacy of Lute-gen® & Zea-gen® for MPOD, and establish its subjects: 93 | Duration of study: 180 days | publication of data)



- **HEALTHY AGEING**
- EYE HEALTH
- COGNITIVE HEALTH

## COGNITIVE HEALTH 49

Several studies have indicated the correlation between Lutein in the diet and an improvement in cognitive function especially in older people. A combination of Lutein and Zeaxanthin may support better cognitive function in all age groups.

#### Study Details: COGNITION

A randomized, double-blind, placebo controlled, two-arm study to evaluate the safety & efficacy of Lute-gen® & Zea-gen® on CNS vital signs in addition to VeM, ViM, reasoning ability, executive function. Number of of data)

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# How we make Lute-gen®

The journey from farm to high quality Lutein

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Manufactured under our Seed-to-Drum
Program where each step has Critical Control
Points to ensure an ingredient that is free of
residual solvents & pesticides while maintaining
ingredient integrity in terms of active content



The Lute-gen® production process begins with Non-GMO marigold seeds.

Responsible farmers are selected through a detailed qualification process.

Our team of farm-tech advisors manage each local grower to ensure our specific requirements of best-practices are met.

We strive to help our growers and ensure that their communities are directly benefitted from our relationship with them.



#### **The Extraction Process**

The marigold flowers are dried, fermented and then processed in our unique oleoresin extraction process. The oleoresin is then further purified to make our high-quality Lutein, Lute-gen®



Harvesting





Fermentation



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Oleoresin to Extraction Oleoresin to purified Lutein



Presently, Lute-gen® is available in the regions indicated. We are also expanding our horizons to make our Lutein available to new markets around the world.













We have done some extensive work on Lute-gen® and discovered that it is suitable for a plethora of promising end applications. Its availability in multiple grades adds to its versatility.









