







ZEAXANTHIN

LUTEIN (FREE & ESTER)

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.



Non-GMO **Project Verified**



Vegan & Vegetarian



Solvent & Pesticide Free



Allergen Free

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





Pending

Master File



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.









Choose Good Health™

LUTEIN (FREE & ESTER)

ZEAXANTHIN

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: 1.7ma Lutein & 7eaxanthin

The recorded average intake of Lutein & Zeaxanthin from diet is only around 1.7mg¹. Therefore, there is a need to bridge this gap through supplementation.

We have been conducting several studies to explore the protective effects of Lute-gen® & Zea-gen®, some of which are:

study that demonstrated the potential of Lute-gen® in preventing Telomere length erosion in vitro under oxidative stress conditions.

EYE HEALTH (1)

Lutein & Zeaxanthin have shown promising results in the fight against atrophic age-related macular 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 correlation with foveal thickness. Number of subjects: 93 | Duration of study: 180 days | Estimated time of completion Q4 2020 (includes publication of data)



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

COGNITIVE HEALTH



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 time of completion Q1 2021 (includes publication of data)

How we make Lute-gen®

The journey from farm to high quality Lutein





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 distinguished 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** thus obtained is **further** purified to make our high quality Lutein, Lute-gen®



Harvesting

Planting &



Drying &

Fermentation









Extraction

Oleoresin to purified Lutein





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









Available Grades & Applications

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 over four different grades adds to its versatility.





