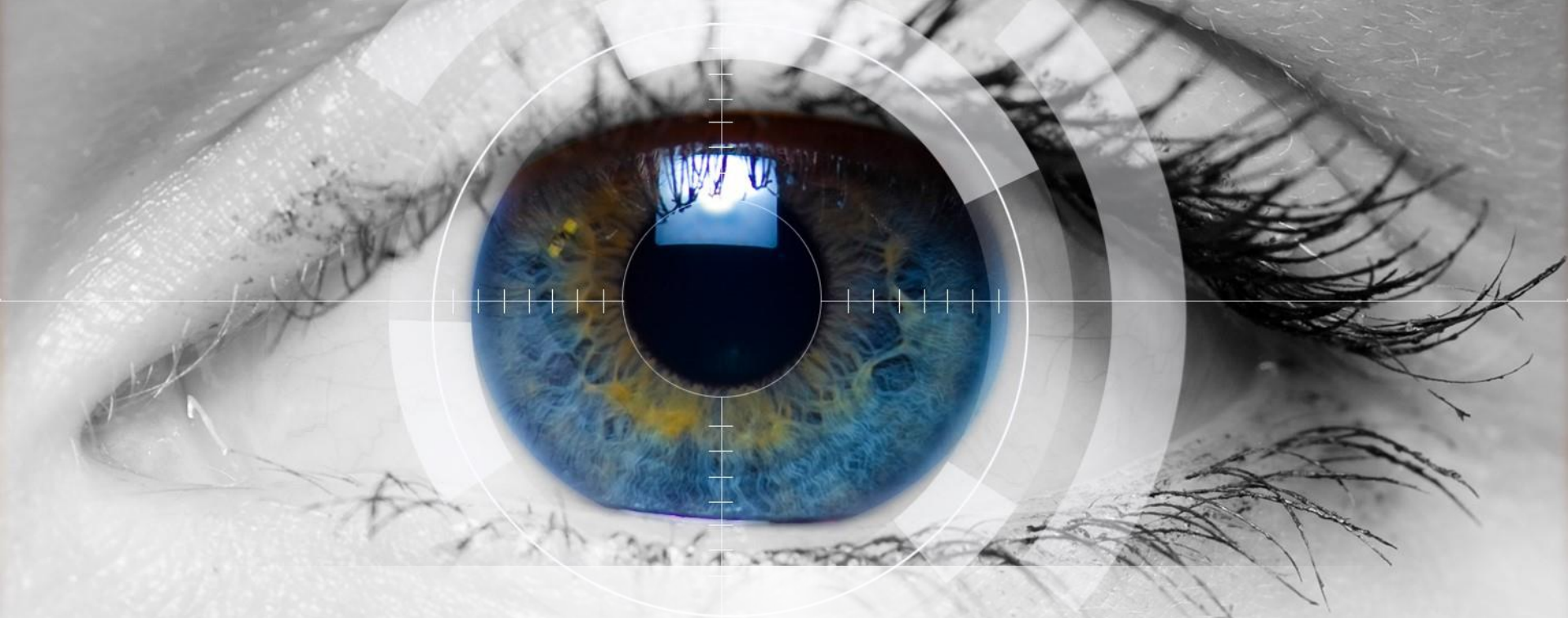


Lutein for Eye Health



OcuFlora



Manipal Natural
PRIVATE LIMITED



Welcome!!

We MAKE NATURAL PRODUCTS better!

Manipal Natural Pvt Ltd

Manipal Natural, manufactures botanical extracts and export to global nutraceutical market, bringing wholesome green tech to everyone. Company look forward to becoming strategic partners with more and more companies in food, beverage, cosmetic, dietary supplement, food supplement, health care products and pharmaceuticals.



Manipal Natural
PRIVATE LIMITED



Expertise in Botanical Extraction

Lutein grades offered by Manipal Natural

1

Lutein Free : Oil, Powder, Water dispersible

2

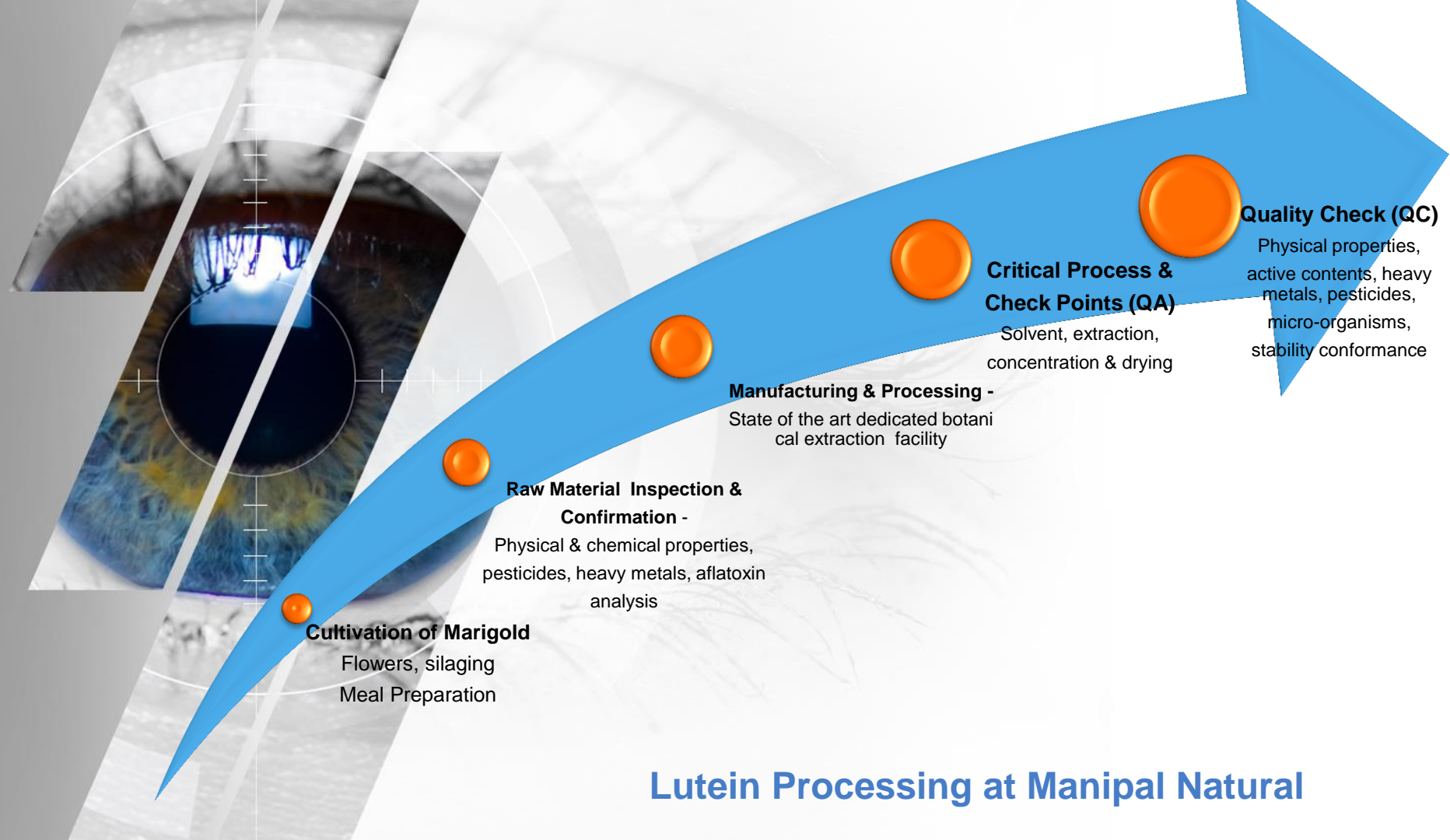
Lutein Ester : Oil, Powder

3

Lutein Ester : Super critical Extracted

4

Lutein Beadlets



Lutein Processing at Manipal Natural

Why Manipal Natural for Lutein

1



Generations of faith
In Business
Since 1925

Manipal Group

95 Years of Business
faith

2

Extraction Capacity

Manipal Natural has 30 MT / day raw
herbal processing GMP approved
capacity.

3

Class 8 processing facility

Clean room facility for
processing and fully
equipped with state of the
art facility

4

Quality & R&D

Complete quality testing
Custom made grades
developed



Supercritical extracted Lutein

01

Manipal Natural
supercritical CO₂ Lutein
Functionality is best suited for
nutraceuticals and supplements.



02

Manipal Natural
CO₂ is acceptable as a food
additive by the Japanese
Specifications and Standards
for Food and Food Additives



03

Manipal Natural
CO₂ is well-accepted by the
International Federation of
Organic Movement (IFOAM)

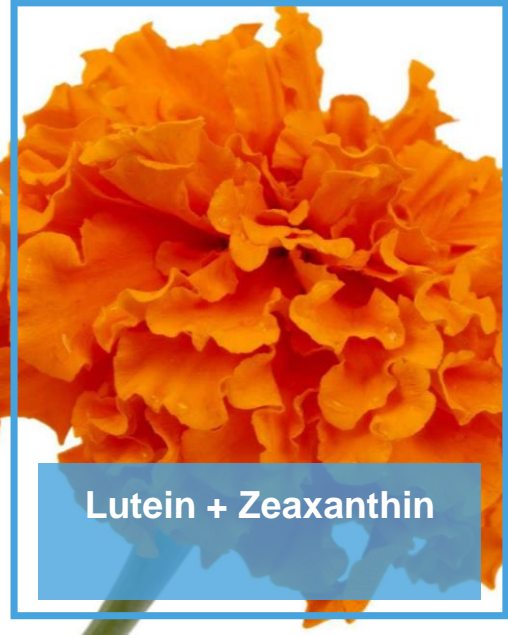


04

Manipal Natural
Offers Co₂ Extracted Lutein
Ester ; with No use of
organic solvents and zero
solvent residues



Zeaxanthin and Lutein + Zeaxanthin



Prevalence of AMD and Cataract



AMD is the most common cause of visual impairment and irreversible blindness among elderly.

AMD and cataract incidence are growing. Worldwide, more than 25 million people are affected by age-related macular degeneration and the formation of cataracts.



AMD is the leading cause of blindness in people over age 55 in the Western world and the incidence is expected to triple by 2025.



Healthy Eyes

Lutein is a xanthophyll carotenoids, yellow pigment found in a wide variety of plant foods, especially in dark-green leafy vegetables, such as kale, spinach, turnip greens and carrots.

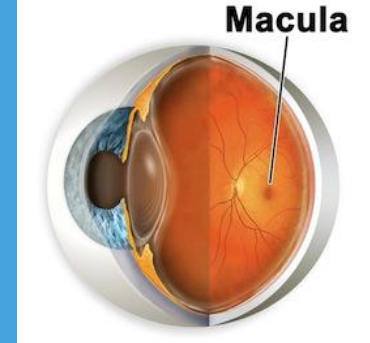
The xanthophylls because of their yellow to orange-red coloration and natural occurrence in human foods, also finds its use as a food colorant. Research involving *in-vitro* studies, animal models, and human studies has been directed to the potential role of lutein and zeaxanthin in protecting against several chronic diseases, **particularly age-related macular degeneration (AMD) and cataract.**



Lutein and Eye Health

The xanthophylls are uniquely concentrated in the macular region of the eye (central portion of the retina) with zeaxanthin being the dominant component in the central macula and lutein distributed throughout the retina

Lutein and zeaxanthin are the only carotenoids reported to be present in the eye lens





Thank you

www.ManipalNatural.com