



**FOOD GRADE
LUTEIN CONCENTRATE**

SPECIFICATIONS SHEET

CODE: HE-ID-10

Rev: 00

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Description:

Lutein concentrate obtained from the extract of marigold flowers which has been saponified and purified using VEPINSA's proprietary technology and contains no additives unless specified by customers.

Translutein: Minimum 75% (USP, Spectrophotometric-HPLC)

Total Carotenoids: Minimum 80% (AOAC, Spectrophotometric)

Carotenoid Relative Partition by HPLC:

<u>Carotenoids:</u>	<u>%</u>
Translutein	92 to 96
Transzeaxanthin	4 to 8
-Cryptoxanthin	Less than 1
Other carotenoids	Less than 0.5

Physical Aspect:

Bright orange granulated powder with an specific weight of 0.35 to 0.45 gr/ml.

Residual Solvents:

Contains less than 1 % water and less than 25 ppm total organic solvents where hexane, methanol and ethanol are less than 25 ppm in any of them.

Microbiological Assay:

Standard Plate Count	500 col/gr max.
Yeast / Mold	10 col/gr max.
Coliform	10 col/gr max.
<i>E. coli</i>	negative
<i>Salmonella</i>	negative

Uses:

Recommended for further processing in the food, pharmaceutical, nutraceutical and cosmeceutical industries.

Packaging:

Plastic bags with moisture and oxygen barriers inside a cardboard box with 10 kg net weight and sealed under inert gas. May be packed in other presentations if requested by the customer.