PRODUCT DATA SHEET	
XL olein	eXtra Large big egg
	GMP+ ISO 22000
Review nº 10	Review date: May-2025

1. DESCRIPTION

Fatty acids (oleins) of exclusively vegetable origin from the refining of edible oils.
Possible botanical origin: sunflower, soy, rape, avocado, grape, corn.
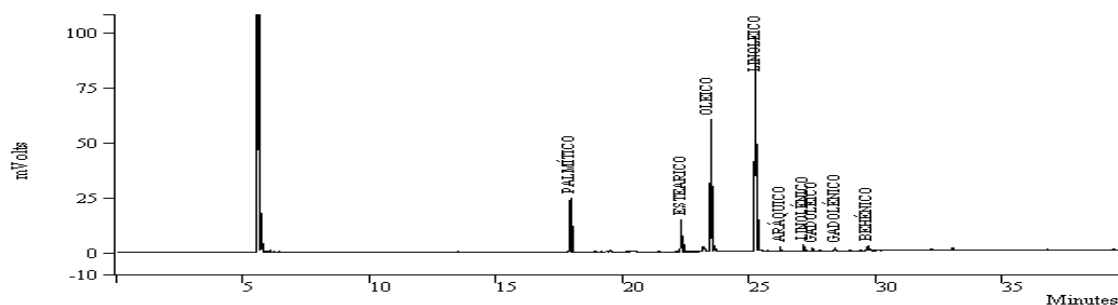
2. USE

Product for animal feed.

3. CHARACTERISTICS

GAS-CROMATOGRAPHYA

· **palmitic + este
aric** …................   11 - 20 %
· **oleic** ……….......................   30 - 45 %
· **linoleic** ....   > 42 %

AVERAGE VALUES
· **monoinsaturated**.. 33,00 - 38,00 %
· **poliinsaturated**..... 42,00 - 54,00 %   **U/S 4,49 - 5,00**
· **saturated** .... 15,00 - 20,50 %

· **New insaturation index (gps)** ....…0,93 - 1,15
· **Insaturated index** …......................... 1,18 - 1,47

· **Esentials** = linoleic + 0.62 linolenic I + 0.34 linolenic II + 0.46 arachidonic + 1.39 epa w3 + 1.51 dha w3 = **41,62 – 53,62 %**

QUALITY

· **FFA (as oleic)** …..........................…….......... 35 - 65 %

· **Moisture (distillation)*** .... ≈ 1.20 %

· **Impurities (etilic ether)*** …........................ ≈ 0.30 %

· **Peroxide index**   …............................ .... < 3.00 mEq/Kg

· **Flammable solvent residue** …..................... < 0.70 ppmil

· **Saponification Value** …............................ 185 - 195

· **Number of charbons** …................................ 16,09 - 20,07

· **Molecular weight (fatty acids)**..................... 251,70 - 314,04

· **Melting point (fatty acids)**............................ 12,51 - 16,21 ºC

· **Mineral acidity (pH)**..................................... 5 - 6

· **Viscosity (40º)**... 45,5 centipoises

BIOLOGIC MICROORGANISMS

· **Aerobic mesophilies** .... below 5x10^5 UFC/g

· **Anaerobic sulphate reductors**......... < 10^2 UFC/g

· **Coliform bacterice** …............ below 3x10^2 UFC/g

· **E. Coli and salmonella**................ abscence in 1 g

· **Patogen staphylococcus** …......... below 10^2 UFC/g

· **Fungus and yeasts** .... below 10 UFC/g

RIOSA-REFINACIÓN INDUSTRIAL OLEÍCOLA, S.A.
Bda del Puente, s/n – 23490 EST. LINARES-BAEZA
+ 34 953692000 riosa@riosa.com   http://www.riosa.com

R-P07-03-XL

4. ADDITIVES

- E321: BHT : 100 ppm. Antioxidant
- 1K237 : sodium format : 100 ppm silage additive
- Prohibited for use in dog food

5. OBSERVATIONS:

- May contain OMG soybean oil. For the application of the Regulations 1829/2003 and 1830/2003 is labeled as "coming from soybean oil OMG".
- Any excess over 1.50% of the sum of humidity and impurities will be discounted.
- The indicated values are approximate, but in any case they must be within the indicated range.
- The values for which a range is not indicated could suffer slight variations.
- Acid oils resulting from chemical refining (code 13.6.1) according to EU Regulation 68/2013 concerning the Catalog of raw materials in animal feed. The humidity and gross fat values of the merchandise are indicated on the delivery note.
- Washed, purified and vacuum sterilized, according to R(EEC) 1774/2002.
- Absense product of animal protein, transformed or raw.
- Limits of dioxins, PCB's and other undesirable substances according to R.D. 465/2003 and Directive (EU) 2002/32.
- Company authorized according to Reg. (EU) Nº 183/2005 and 225/2012 on feed hygiene (registration number ALFA ESP 23000114).

6. SHIPPING AND HANDLING:

- Our products are delivered to customers in isothermal tanks. The product is served at a temperature higher than 45ºC to facilitate unloading.
- It is convenient to make sure that the elements used for the olein racking are cleaned both before and after they are made, thus avoiding contamination with other liquids and possible blockages by solidification of the olein in the circuit.

7. STORAGE

It is advisable to store the product in tanks meeting the following characteristics:

- Without elements of copper nor alloys of this one (brass, bronze).
- It must be opaque so as not to allow the passage of light.
- The openings must be such as to prevent the passage of a continuous stream of air, which would cause accelerated rancidity.
- The storage tank should be tall, narrow and its bottom preferably conical or sloped to facilitate drainage.
- It must have a system of heating and / or isothermal insulation, especially in winter and if the deposits are outdoors.

8. EXPIRATION

- In compliance with the storage conditions described above, RIOSA estimates the product is suitable for use during a period of 180 days from the date of delivery.

9. ANNEXES:

- Product safety data sheet is attached.