

Product: Cold Pressed Safflower Oil
Composition: 100% Safflower seed
Batch 055/25
Manufacturing: 11/04/2025
Validity: 11/04/2027
Departure date:

TEST REPORT NO: **RE-CQ 055/25**

Sensory Characteristics

Appearance: liquid Color: light yellow Odor and Taste: characteristic

Physical Results – Chemical	Result
Acidity Index, % (1.0-4.0)	1.35
Peroxide index, meq/kg (1-8)	1.48
Saponification index, mg KOH/g (189-193).....	191
Iodine index, g I ² /100g (89-94).....	91
Refractive index 25°(1.466-1.470).....	1.469
Moisture, g/100g (N/A).....	0.01
Relative density, g/ml (20°C): 810-960.....	0.925
Saturated fatty acids, g/100 g(4.30-7.40).....	6.48
Monounsaturated fatty acids, g/100 g(58.35-80.00).....	76.19
Polyunsaturated fatty acids, g/100 g(20.30-26.9).....	24.93
Trans fatty acids, g/100 g.....	not detected

Result in fatty acids:

C 16:0 palmitic (2.00-6.00).....	4.09
C 16:1 omega 7 palmitoleic acid (0.04-0.1).....	0.07
C 18:0 stearic (1.10-2.00).....	1.68
C 18:1 omega 9 oleic (40.00-80.00).....	76.96
C 18:2 omega 6 linoleic acid (15-26).....	24.60
C 20:0 arachidic (0.10-0.45).....	0.31
C 18:3 omega 3 α alpha linolenic (0.90-2.15).....	1.00
C 20:1 omega 9 cis-11-eicosenoic acid (0.10-0.28)....	0.20
C 22:0 behenic (0.10-0.40).....	0.26
C 22:1 omega 9 erucic (0.05-0.20).....	0.12
C 24:0 lignoceric (0.10-0.20).....	0.14
C 24:1 omega 9 nervonic (0.15-0.25).....	0.19

Nutritional Information

Quantity per 100 grams

Calories:.....	100kcal
Total Fat:.....	7.2g
Saturated Fats:.....	2.5g
Trans Fats:.....	0g
Cholesterol:.....	25mg
Sodium:.....	0mg
Carbohydrates:.....	0mg
Dietary Fiber:.....	0.5mg
Sugar:.....	0g

Safety – Microbiological Analysis (Manufacturer Guarantees, Castro vegetable oils)

Thermotolerant coliforms: < 1x10³ UFC/g (According to item 16 C – Resolution No. 12, of 01/02/2001) Total mesophile count: <1x10³ CFU/g
Molds and yeasts: <1x10² CFU/g

Safety – Heavy metals

Arsenic: (as As2O3) 0.3ppm Max. **Lead** (como Pb) 0.5ppm Max.

Safety Macroscopic and microscopic foreign matter

Foreign matters: Max. 1.5% acid-insoluble sand or ash. Dead mites: Maximum of 5, (According to Resolution No. 14, of 03/28/2014)

Packaging: The oils are contained in an approved virgin plastic drum.

Gluten: none (according to RCD 259)

GMOs: Product free from Genetically Modified Organisms

MOAH and MOSH mineral oil hydrocarbons (MOH): max. 2.0mg/kg

Pesticide Residue: < 0.10 mg/Kg

Additional Notes: Cold pressed and filtered oil

Output control