

Product: Cold Pressed and Filtered Sunflower Oil
Composition: 100% Sunflower seed
Batch: 030/24
Manufacturing: 11/05/2024
Validity: 11/05/2026
Departure date:

TEST REPORT NO: RE-CQ 030/24

Sensory Characteristics

Appearance: liquid Color: light yellow, Odor and Flavor: characteristic

Physical and Chemical Results**Result**

Acidity Index, mg KOH/g (1.0-4.0) 0.92
Peroxide index, meq/kg (20 -12)3.28
Saponification index, mg KOH/g (120-200).....188
Iodine index, Cgl/gr (80-250).....145
Refractive index 40°(1.4600-1.4800).....1,469
Moisture, g/100g (N/A).....0.11
Relative density, g/ml (20°C): 810-960.....0.925
Saturated fatty acids, g/100 g.....11.0
Monounsaturated fatty acids, g/100 g.....28,0
Polyunsaturated fatty acids, g/100 g.....60.0
Trans fatty acids, g/100 g.....not detected

Result in fatty acids:

C 16:0 palmitic6.80
C 16:1 omega 7 palmitoleic.....0.10
C 18:0 stearic4.20
C 18:1 omega 9 oleic.....28.0
C 18:2 omega 6 linoleic.....59.0
C 20:0 arachidic.....0.45
C 20:1 omega 9 cis-11-eicosenoic.....0.2
C 22:0 behenic0.8

METHOD(S) USED

The MA-QC coding refers to the laboratory's internal documents, followed by the summary information of the method reference.

Acid index - MA-CQ.114 based on AOCS (2017), Official Method Ca 5a-40.

Iodine index - MA-CQ.119 based on AOCS (2017), Official Method Cd 1d-92.

Peroxide index - MA-CQ.168 based on AOCS (2017), Official Method Cd 8b-90.

Refractive index - MA-CQ.120 based on AOCS (2017), Official Method Cc 7-25.

Saponification index - MA-CQ.121 based on AOCS (2017), Official Method Cd 3-25.

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: < 0.10 mg/kg Lead: < 0.10 mg/Kg (According to Resolution No. 42, of 08/29/2013)

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: does not contain (according to RCD 259)

GMOs: Product free from Genetically Modified Organisms

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

Additional Notes: Cold pressed and filtered oil

Output control