

## Product Specification: Crude Sunflower Oil

### Product Overview

Crude sunflower oil extracted from *Helianthus annuus* seeds, serving as a foundational ingredient for downstream food processing. This unrefined oil exhibits natural characteristics suitable for industrial refinement.

### Intended Applications

Primarily employed in the production of refined edible sunflower oil, blended vegetable oils, compound fats, fat-based spreads, mayonnaise, and analogous emulsion products.

### Certifications and Declarations

- **GMO Status:** Free from genetically modified organisms; verifiable through identity-preserved sourcing and documentation.
- **Halal Compliance:** Produced and handled in accordance with Sharia principles; certified by accredited Islamic bodies.
- **Quality Management:** Manufactured under Good Manufacturing Practice Plus (GMP+) standards for feed and food safety.

### Organoleptic Properties

- **Appearance:** Slightly cloudy permitted; homogeneous without separation.
- **Odor:** Distinctive to crude sunflower oil; free from extraneous, off-putting, or rancid aromas.
- **Taste:** Not evaluated in crude state; intended for further processing.

### Physical and Chemical Specifications

Parameter	Limit	Reference Method
Free Fatty Acids (as oleic acid, %)	≤ 3.0	AOCS Ca 5a-40
Moisture and Volatile Matter (%)	≤ 0.3	AOCS Ca 2d-25
Phosphorus Content (%)	≤ 0.025	AOCS Ca 18-91 (modified)
Insoluble Matter in Trichloroethylene (%)	≤ 0.10	AOCS Ca 10-25
Relative Density at 20°C	0.918 – 0.928	AOCS Bg 1-05
Refractive Index at 20°C	1.4720 – 1.4760	AOCS Cc 7-25

#### Corporate Office

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Parameter	Limit	Reference Method
Iodine Value (g I <sub>2</sub> /100 g)	119 – 138	AOCS Cd 1-25
Saponification Value (mg KOH/g)	188 – 194	AOCS Cd 3-25
Unsaponifiable Matter (g/kg)	≤ 15	AOCS Ca 6a-40
Sediment Content (%)	≤ 0.5	ISO 663 (gravimetric)

\*Specifications conform to Codex Alimentarius STAN 210-1999 for crude vegetable oils and relevant EU directives.

## Microbiological Criteria

Microbiological integrity is inherently supported by low moisture levels in the product matrix.

Parameter	Sampling Plan (n=c)	Acceptance Limits (m/M in CFU/g)
Total Plate Count (Aerobic Mesophiles)	n=5, c=1	m=10 <sup>2</sup> / M=10 <sup>3</sup>
Yeasts and Moulds	n=5, c=1	m=10 <sup>1</sup> / M=10 <sup>2</sup>
Listeria monocytogenes	n=5, c=0	m=0 (absence in 25 g sample)
Enterobacteriaceae	n=5, c=1	m=10 <sup>1</sup> / M=10 <sup>2</sup>

\*Based on ISO 17025-accredited methods (e.g., ISO 4833-1 for TPC, ISO 21527 for yeasts/moulds, ISO 11290 for Listeria, ISO 21528-2 for Enterobacteriaceae).

## Trace Elements (Metals)

Element	Maximum Level (mg/kg)
Lead (Pb)	0.1
Arsenic (As, total)	0.4
Iron (Fe)	5.0
Nickel (Ni)	0.5
Copper (Cu)	0.4

\*Limits per EU Regulation (EC) No 1881/2006 on contaminants in food, with analysis by ICP-MS (EN ISO 11885).

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## Allergen Profile

This product contains no detectable levels of the following allergens, in accordance with EU Regulation (EU) No 1169/2011:

Allergen	Status
Cereals containing gluten (e.g., wheat, rye, barley, oats, spelt, kamut) and derivatives	Absent
Crustaceans and derivatives	Absent
Eggs and egg products	Absent
Fish and fish products	Absent
Peanuts and peanut products	Absent
Soybeans and soy products	Absent
Milk and milk products (incl. lactose)	Absent
Tree nuts (e.g., almonds, hazelnuts, walnuts, cashews, pecans, Brazil nuts, pistachios, macadamia) and derivatives	Absent
Celery and celery products	Absent
Mustard and mustard products	Absent
Sesame seeds and sesame products	Absent
Sulphur dioxide and sulphites (>10 mg/kg as SO <sub>2</sub> )	Absent
Lupins and lupin products	Absent
Molluscs and mollusc products	Absent

\*Verified through risk assessment and supplier declarations; facility maintains allergen segregation protocols.

## Packaging and Identification

- **Format:** Bulk shipment in insulated, food-grade tankers or flexitanks.
- **Documentation:** Each delivery includes a Certificate of Analysis (CoA), GMO declaration, and Halal certificate.
- **Tank Labeling:** Permanent placards indicating product name, batch code, and hazard-free status.

## Storage and Transportation

- **Storage:** In dedicated, stainless-steel tanks optimized for edible oils; maintain cool, dry conditions away from light sources.
- **Transportation:** Via cleaned, dry, and dedicated vehicles or pipelines to mitigate contamination risks.

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- **Shelf Life:** Not designated for crude form; recommend processing within 6–12 months of production under controlled conditions to preserve integrity.

## Regulatory Adherence

- **Materials of Construction:** Compliant with Republic of Serbia food safety regulations for contact materials (equivalent to EU 1935/2004).
- **Traceability:** Full chain-of-custody from seed to dispatch, supporting audit trails.

## Disclaimer

The information presented is derived from established analytical data and industry benchmarks, provided solely for reference. No express or implied warranties regarding quality, suitability, or performance are extended. Recipients are responsible for independent verification, including pilot-scale testing, prior to use. The producer disclaims liability for any direct, indirect, or consequential damages arising from application, whether alone or in formulations. Specifications may be revised without prior notification; all transactions governed by standard commercial terms.

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