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Crude Sunflower Oil

1.0. Identification

1.1. Product code: 1100523

2.0. FEATURE

2.1 Description

Appearance: slightly cloudiness is allowed

Odour: specific for the product, without foreign flavor and rancid smell

2.2. Use

Crude sunflower oil is used in the production of refined edible sunflower oil, mixed edible oil, blended edible vegetable fat, fat spreads, mayonnaise and related products.

2.3. GMO Status

The product must not contain genetically modified organisms

2.4. Halal status

The product is according to Sharia.

2.5. Physical and chemical properties

| | |
|--|---------------------|
| Free fatty acids 8as oleic) | max. 3% |
| Water content and volatgile matter | max. 0,3% |
| Phosphorus content | max. 0,025% |
| Content of insoluble matter in trichloroethylene | max. 0,10% |
| Relative density at 20°C | 0,918 – 0,928 |
| Refractive index at 20°C | 1,4720 – 1,4760 |
| Iodine number | 119-138gJ2/100g |
| Saponification number | 188-194 mgKOH/g oil |
| Unsaponification matter | max. 15 g/kg |
| Sediment content | max. 0,5% |

2.6. Microbiological characteristics

| Parameter | Sampling plan | Allowed number |
|------------------------|---------------|-------------------|
| CFU(aerobic mezophil) | N=5; c=1 | M=10; M=100 cfu/g |
| Yeast and molds | N=5; c=1 | M=10; M=100 cfu/g |
| Listeria monocytogenes | N=5; c=0 | M=100 cfu/g |
| Enterobacteriaceae | N=5; c=1 | M=10; M=100 cfu/g |

2.7. Microbiological validity

Provided by low water content in the product

2.8. The allowed amount of metals

| | |
|--------------------|----------------|
| Lead (Pb) | max. 0,1 mg/kg |
| Arsenic total (As) | max. 0,4 mg/kg |
| Iron (Fe) | max. 5,0 mg/kg |
| Nickel (Ni) | max. 0,5 mg/kg |
| Copper (Cu) | max 0,4 mg/kg |

2.9. Allergens

| | |
|---|---|
| Cereals containing gluten and products thereof * | - |
| Crabs and crab products | - |
| Eggs and egg products | - |
| Peanuts and peanut products | - |
| Fish and fish products | - |
| Peanuts and peanut products | - |
| Soybean and soy products | - |
| Milk and milk products (incl. lactose) | - |
| Nuts** | - |
| Celery and products of celery | - |
| Mustard and products of mustard | - |
| Sesame seeds and sesame seed products | - |
| Sulfur dioxide and sulphite in concentrations more than 10mg/l and expressed as SO ₂ | - |
| Lupin and products thereof | - |
| Molluscs and products thereof | - |

* Wheat, rye, barley, oats, couch grass, kamut (*Triticum turanicum*) or their hybrids

** Almonds *Amygdalus communis* L., *Corylus avellana* hazelnut, walnut *Juglans regia*, Indian nutmeg-cash *Anacardium occidentale*, *Carya illinoensis* nutmeg nut, Brazilian nutmeg *Bertholletia excelsa*, pistachio *Pistacia vera*, makadamija nutmeg *Macadamia ternifolia*

3.0 Packaging

In bulk-tank

4.0 Designation

In the documentation accompanying the delivery; manufacturer declaration

On the storage tank: table with the name of the raw product

5.0 Storage

In storage tanks suitable for the product

To be transported in clean and dry tanks or through pipelines

6.0. Shelf life

None

7.0. Applicable regulations for materials

According to the current regulations of the Republic of Serbia

8.0. Quality certification

The product is certified as per GMP+

All information and advice in whatever form regarding possibilities of processing or using our products, as well as presentations or otherwise providing information - also in respects of possible rights of third parties - is given to the best of our knowledge on the basis of research work and experience. It is not, however, binding on us and all liability on our part is excluded. The purchaser is not released from the burden of carrying out his own tests and experiments. Furthermore, our sales and delivery conditions will apply accordingly.

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