

## ATEST O KVALITE VÝROBKU

Ricínový olej, LZS, BIO

Kód produktu: OL721

INCI: Ricinus communis (Castor) Seed Oil

CAS n°: 8001-79-4

EINECS n°: 232-293-8

Šarža: LOT0017178

Dátum min. trvanlivosti: 07/2025

Popis: rastlinný olej, za studena lisovaný, BIO kvalita

Chemicko-fyzikálna špecifikácia:

| Parameter                                 | Špecifikácia                                  | Namerané |
|---|---|----------|
| Vzhľad                                    | viskózna olejová tekutina<br>bledožltej farby | spĺňa    |
| Vôňa                                      | charakteristická                              | spĺňa    |
| Špecifická hmotnosť pri 20°C              | 0,954 - 0,980                                 | 0,962    |
| Optická rotácia pri 20°C                  | -----   | -----    |
| Index lomu pri 20°C                       | 1,470 - 1,481                                 | 1,4787   |
| Voľné (trans) mastné kyseliny (%)         | -----   | -----    |
| Peroxidové číslo (Meq O <sub>2</sub> /kg) | < 20,0  | 3,5      |
| Číslo kyslosti (mg KOH/g)                 | < 5,0   | 0,78     |
| Jódové číslo (gI <sub>2</sub> /100g)      | 82,0 - 90,0                                   | 84,62    |
| Saponifikačná hodnota                     | 176,0 - 187,0                                 | 181,0    |
| Hydroxylová hodnota (MGKOH/G)             | > 150,0                                       | 165,1    |

GLC analýza:

| Názov mastnej kyseliny |                        |       | Špecifikácia | Obsah |
|------------------------|------------------------|-------|--------------|-------|
| Caproic acid           | Kyselina kapronová     | C6:0  | -----        | ----- |
| Caprylic acid          | Kyselina kaprilová     | C8:0  | -----        | ----- |
| Capric acid            | Kyselina Kaprinová     | C10:0 | -----        | ----- |
| Lauric Acid            | Kyselina laurová       | C12:0 | -----        | ----- |
| Myristic Acid          | Kyselina myristová     | C14:0 | -----        | ----- |
| Palmitic Acid          | Kyselina palmitová     | C16:0 | < 2,0        | 1,09  |
| Palmitoleic Acid       | Kyselina palmitolejová | C16:1 | -----        | ----- |
| Stearic Acid           | Kyselina stearová      | C18:0 | < 2,5        | 1,25  |
| Oleic Acid             | Kyselina olejová       | C18:1 | 2,0 - 6,0    | 3,33  |
| Ricinoleic Acid        | Kyselina ricínolejová  | C18:1 | 85,0 - 95,0  | 87,81 |

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|                     |                        |       |           |       |
|---------------------|------------------------|-------|-----------|-------|
| Linoleic Acid       | Kyselina linolová      | C18:2 | 1,0 - 7,0 | 4,36  |
| Alpha Linoleic Acid | Kyselina alfa-linolová | C18:3 | < 1,0     | 0,28  |
| Arachidic Acid      | Kyselina arachidová    | C20:0 | -----     | ----- |
| Eicosenoic Acid     | Kyselina eicosová      | C20:1 | -----     | ----- |
| Eicosadienoic acid  | Kyselina eikosadiénová | C20:2 | -----     | ----- |
| Behenic Acid        | Kyselina behenová      | C22:0 | -----     | ----- |
| Erucic Acid         | Kyselina eruková       | C22:1 | -----     | ----- |
| Lignoceric Acid     | Kyselina lignocerová   | C24:0 | -----     | ----- |

**Skladovanie:** uchovávať v uzatvorených tmavých nádobách, na suchom vetranom mieste (pri teplotách <20°C), mimo potenciálnych zdrojov zapálenia, chrániť pred priamym slnečným žiarením

**Krajina pôvodu:** India

Vyššie uvedené údaje a skutočnosti sú prevzaté z atestu dodaného výrobcom.

**Vyhotovené:** 05.01.2024



## CERTIFICATE OF ANALYSIS

Castor oil, cold pressed, organic

Product code: OL721

INCI: Ricinus communis (Castor) Seed Oil

CAS n°: 8001-79-4

EINECS n°: 232-293-8

Batch: LOT0017378

Best before date: 07/2025

Chemical-physical specification:

| Parameter                               | specification                         | Results |
|---|---------------------------------------|---------|
| Appearance                              | clear-pale yellow viscous oily liquid | pass    |
| Odour                                   | characteristic                        | pass    |
| Specific gravity, 20°C                  | 0,954 - 0,980                         | 0,962   |
| Optical rotation, 20°C                  | -----                                 | -----   |
| Refractive index, 20°C                  | 1,470 - 1,481                         | 1,4787  |
| Free fatty acid (%)                     | -----                                 | -----   |
| Peroxide value (Meq O <sub>2</sub> /kg) | < 20,0                                | 3,5     |
| Acid value (mg KOH/g)                   | < 5,0                                 | 0,78    |
| Iodine value (gI <sub>2</sub> / 100g)   | 82,0 - 90,0                           | 84,62   |
| Saponification value                    | 176,0 - 187,0                         | 181,0   |
| Hydroxyl value (MGKOH/G)                | > 150,0                               | 165,1   |

Fatty acid profile:

| Acid name        |       | Specification | Results |
|------------------|-------|---------------|---------|
| Caproic acid     | C6:0  | -----         | -----   |
| Caprylic acid    | C8:0  | -----         | -----   |
| Capric acid      | C10:0 | -----         | -----   |
| Lauric Acid      | C12:0 | -----         | -----   |
| Myristic Acid    | C14:0 | -----         | -----   |
| Palmitic Acid    | C16:0 | < 2,0         | 1,09    |
| Palmitoleic Acid | C16:1 | -----         | -----   |
| Stearic Acid     | C18:0 | < 2,5         | 1,25    |
| Oleic Acid       | C18:1 | 2,0 - 6,0     | 3,33    |
| Ricinoleic Acid  | C18:1 | 85,0 - 95,0   | 87,81   |
| Linoleic Acid    | C18:2 | 1,0 - 7,0     | 4,36    |

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|                     |       |       |       |
|---------------------|-------|-------|-------|
| Alpha Linoleic Acid | C18:3 | < 1,0 | 0,28  |
| Arachidic Acid      | C20:0 | ----- | ----- |
| Eicosenoic Acid     | C20:1 | ----- | ----- |
| Eicosadienoic acid  | C20:2 | ----- | ----- |
| Behenic Acid        | C22:0 | ----- | ----- |
| Erucic Acid         | C22:1 | ----- | ----- |
| Lignoceric Acid     | C24:0 | ----- | ----- |

**Storage:** store in closed dark containers, in a dry, ventilated place (<20°C), away from potential sources of ignition, protect from direct sunlight

**Country of origin:** India

All the above information was taken from the documents provided by the manufacturer.

**Date of issue:** 05.01.2024

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