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Certificate of Analysis Sheet

Organic Wheatgerm Oil

(*Triticum vulgare*)

Batch number 211021-1
Origin: USA

Trade Name: Wheatgerm Oil Organic **Inci Name:** *Triticum Vulgare (Wheatgerm) Germ Oil*
Cas No: 68917-73-7 / 8006-95-9 **Einecs No:** 281-689-7
Manufactured: September 2021 **Application:** Food / Cosmetics

Description: The oil is obtained by pressing from of the wheat germ *Triticum vulgare*, *Poaceae*.

| ANALYTICAL DETAILS | UNIT | RANGE | RESULT |
|--------------------------|------------------------|--------------------------|----------|
| Appearance | Organoleptic | Clear oily mobile liquid | Conforms |
| Colour | Organoleptic | Golden amber | Conforms |
| Odour | Organoleptic | Characteristic | Conforms |
| Refractive Index @ 20°C | - | 1.472 – 1.478 | 1.474 |
| Specific Gravity @ 20°C | g/ml | 0.920 – 0.930 | 0.920 |
| Acid Value | mg KOH/g | ≤ 5.0 | 2.3 |
| Peroxide Value | meq O ₂ /kg | ≤ 10.0 | 1.1 |
| Saponification Value | mg KOH/g | 180 - 195 | 193.3 |
| Iodine Value | mg/g | 120 - 135 | 129.0 |
| Unsaponifiable Matter | % | ≤ 5.0 | 4.5 |
| Vitamin E | mg/kg | ≥ 2500 | 2500 |
| Gluten Content | ppm | ≤ 5.0 | Conforms |
| Flash Point (Closed Cup) | °C | >300° | Conforms |

| TYPE | ACID NAME | UNIT | RANGE | RESULT |
|-------|-------------|------|---------|--------|
| C16:0 | Palmitic | % | 14 - 19 | 17.12 |
| C16:1 | Palmitoleic | % | ≤ 1.0 | < 0.1 |
| C18:0 | Stearic | % | ≤ 2.0 | 0.9 |
| C18:1 | Oleic | % | 12 - 23 | 17.2 |
| C18:2 | Linoleic | % | 52 - 59 | 55.4 |
| C18:3 | Linolenic | % | 3 - 10 | 6.0 |
| C20:0 | Arachidic | % | ≤ 1.0 | < 1.0 |
| C20:1 | Eicosenoic | % | ≤ 2.0 | < 2.0 |
| C22:0 | Behenic | % | ≤ 1.0 | < 1.0 |

Storage: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

Shelf Life: The shelf life is 12 months if unopened. Once opened the shelf life of the oil is limited by temperature, light and oxygen exposure. Any remaining oil should be blanketed with nitrogen and used as soon as possible.