## Organic Evening Primrose Oil
INCI: Oenothera Biennis (Evening Primrose) Oil  
Product ID: ORGOILEPOEXPREF9GLAEU742

### Specifications

<table>
<thead>
<tr>
<th><strong>Analytical Details</strong></th>
<th><strong>Methods</strong></th>
<th><strong>Specifications</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Organoleptic</td>
<td>Clear, Bright Yellow to Greenish Oil</td>
</tr>
<tr>
<td>Odor:</td>
<td>Organoleptic</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Color (Gardner):</td>
<td>DIN 4630</td>
<td>≤ 12</td>
</tr>
<tr>
<td>Acid Value:</td>
<td>ISO 660</td>
<td>≤ 4.0 mg KOH/g</td>
</tr>
<tr>
<td>Peroxide Value:</td>
<td>ISO 3960</td>
<td>≤ 3.0 meq/kg</td>
</tr>
<tr>
<td>Totox Value:</td>
<td>Calculated</td>
<td>≤ 25.0</td>
</tr>
<tr>
<td>Moisture:</td>
<td>AOCS Cd8b:90(09)</td>
<td>≤ 0.1%</td>
</tr>
<tr>
<td>Refractive Index (20 °C):</td>
<td>ISO 6320</td>
<td>1.476 - 1.482</td>
</tr>
<tr>
<td>Specific Gravity (20 °C):</td>
<td>ISO 6883</td>
<td>0.921 - 0.931 g/mL</td>
</tr>
<tr>
<td>Saponification Value:</td>
<td>ISO 3557</td>
<td>180.0 - 195.0 mg KOH/g</td>
</tr>
<tr>
<td>Unsaponifiable Matter:</td>
<td>ISO 3596</td>
<td>≤ 2.0%</td>
</tr>
</tbody>
</table>

#### Fatty Acid Profile

<table>
<thead>
<tr>
<th>Fatty Acid</th>
<th>LAU_G051B</th>
<th>Speciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; C16:0</td>
<td></td>
<td>≤ 0.3%</td>
</tr>
<tr>
<td>C16:0 Palmitic:</td>
<td>LAU_G051B</td>
<td>5.0 - 7.0%</td>
</tr>
<tr>
<td>C18:0 Stearic:</td>
<td>LAU_G051B</td>
<td>1.0 - 3.0%</td>
</tr>
<tr>
<td>C18:1 Oleic:</td>
<td>LAU_G051B</td>
<td>5.0 - 10.0%</td>
</tr>
<tr>
<td>C18:2 Linoleic:</td>
<td>LAU_G051B</td>
<td>68.0 - 76.0%</td>
</tr>
<tr>
<td>C18:3 γ-Linoleic:</td>
<td>LAU_G051B</td>
<td>≥ 9.0%</td>
</tr>
<tr>
<td>Others:</td>
<td>LAU_G051B</td>
<td>1.0 - 3.0%</td>
</tr>
</tbody>
</table>

#### Heavy Metals

<table>
<thead>
<tr>
<th>Metall</th>
<th>ICPMS</th>
<th>Speciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead:</td>
<td></td>
<td>≤ 0.1 ppm</td>
</tr>
<tr>
<td>Cadmium:</td>
<td>ICPMS</td>
<td>≤ 0.05 ppm</td>
</tr>
<tr>
<td>Mercury:</td>
<td>ICPMS</td>
<td>≤ 0.05 ppm</td>
</tr>
<tr>
<td>Arsenic:</td>
<td>ICPMS</td>
<td>≤ 0.1 ppm</td>
</tr>
</tbody>
</table>

#### Persistent Organic Pollutants

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Speciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzo (a) Pyrene:</td>
<td>ISO 22959</td>
</tr>
<tr>
<td>Sum of B(a)P, B(a)A, B(b)F, Chrysene:</td>
<td>ISO 22959</td>
</tr>
<tr>
<td>Sum of Dioxins and Furans (as WHO-PCDD/F-TEQ/g):</td>
<td>QMA504-341,HRMS</td>
</tr>
<tr>
<td>Sum of Dioxins, Furans, Dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ/g):</td>
<td>QMA504-341,HRMS</td>
</tr>
<tr>
<td>PCBs (Sum 28, 52, 101, 138, 153, 180) (Total 6 DIN-PCB):</td>
<td>QMA504-341,HRMS</td>
</tr>
</tbody>
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Natural Sourcing, LLC • 341 Christian Street, Oxford, CT 06478
Phone: (203) 702-2500 • Toll Free: (800) 340-0080 • Fax: (203) 702-2501 • info@naturalssourcing.com
www.naturalsourcing.com
Microbiological

<table>
<thead>
<tr>
<th></th>
<th>TP</th>
<th>≤</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Viable Count (TVC):</td>
<td>006</td>
<td>1,000 cfu/g</td>
</tr>
<tr>
<td>Salmonella:</td>
<td>018</td>
<td>None Detected</td>
</tr>
<tr>
<td>Yeast &amp; Mold:</td>
<td>008</td>
<td>≤ 100 cfu/g</td>
</tr>
<tr>
<td>E. Coli:</td>
<td>016</td>
<td>None Detected</td>
</tr>
<tr>
<td>Staphylococcus Aureus:</td>
<td>012</td>
<td>None Detected</td>
</tr>
</tbody>
</table>

Shelf Life: 1 Year

Storage: Store in a cool, dry place away from light and heat. Once opened, nitrogen blanketing is recommended.

Note: Pesticide residues for this product are in accordance with European Food Laws.

Date: 11/12/2019

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