



## CERTIFICATE OF ANALYSIS

**Product: Jojoba Golden Carrier Oil Cold Pressed**

**INCI Name: *Simmondsia chinensis (Jojoba) seed oil***

**CAS No: 90045-98-1 EINECS No: 289-964-3**

**Countries of Origin: Israel**

**Batch Code: 110109**

| Test                                   | Specification | Result              |
|----------------------------------------|---------------|---------------------|
| Appearance                             | Clear liquid  | Complies            |
| Colour                                 | Golden        | Complies            |
| Colour (Gardner)                       | 9 max         | 7                   |
| Odour                                  | Neutral       | Complies            |
| Specific Gravity at 20°C (g/ml)        | 0.86 – 0.875  | 0.862               |
| Refractive Index at 40°C               | 1.45 – 1.47   | 1.46                |
| Acid Value (mgKOH/g)                   | 1 max         | 0.3                 |
| Iodine Value (cgl <sub>2</sub> /g)     | 80 – 92       | 84                  |
| Peroxide Value (MeqO <sub>2</sub> /kg) | 20 max        | 0.4 (at production) |
| Saponification Value (mgKOH/g)         | 85 – 99       | 94.1                |
| Unsaponifiable Matter %                | 45 – 55       | 52                  |
| Bacteria Total Count cfu/g             | 50 max        | < 10                |
| Mould cfu/g                            | 50 max        | < 10                |
| TAMC-Yeast cfu/g                       | 50 max        | < 10                |
| Melting point °C                       | 7 – 9         | 7                   |
| Moisture (g/100g Karl Fischer)         | 0.1% max      | 0.03                |
| VOC Scan ppm (GC/MS)                   | n.d.          | n.d.                |
| Pesticides residues by LC/MS (mg/kg)   | n.d.          | n.d.                |
| Cadmium (Cd) mg/kg                     | 1 max         | < 0.1               |
| Mercury (Hg) mg/kg                     | 0.1 max       | < 0.1               |
| Lead (Pb) mg/kg                        | 0.1 max       | < 0.1               |

### Fatty Acid Profile %

|                         |         |       |
|-------------------------|---------|-------|
| C 16:0 Palmitic Acid    | 0 – 3   | 0.3   |
| C 16:1 Palmitoleic Acid | 0 – 3   | < 0.1 |
| C 18:1 Oleic Acid       | 5 – 15  | 8.2   |
| C 20:1 Gadoleic Acid    | 65 – 80 | 76.2  |
| C 22:0 Behenic Acid     | 0 – 1   | 0.1   |
| C 22:1 Erucic Acid      | 10 – 20 | 14.5  |
| C 24:1 Nervonic Acid    | 0 – 3   | 0.2   |
| Other                   | 0 – 3   | 0.1   |

*Storage: Keep tightly closed, in a cool dry place away from heat, sunlight and moisture.*

**Manufacture Date: April 2020**

**Best Before: April 2023**

**Date Document Created: 02/12/2020**

**Revision Date: n/a**

Shelf life of this product depends very much on storage conditions, particularly temperature and exposure to light and air.

Expiry date must be considered as subjective; the expiry date given here is based on the best of our knowledge and experience of the material when stored under recommended conditions in original unopened containers.

Due to the natural ingredients contained in many of our products, there may be a slight batch to batch variation in the colour, odour, or consistency. However, we ensure that this does not affect the quality and efficiency of the products in any way.

We hereby certify that the above material meets the required specification and is released for free sale.