

Refined sesame oil

Used plant: **Sesamum indicum**; syn. Sesam orientale

Used plant parts: **seeds**

Standard Extract Specification

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|---------------------------------------|--|
| Solvent: | Hexane |
| Refinement: | neutralised, bleached, deodorised using activated carbon |
| Extract description: | pale yellow liquid |
| Peroxide Value (meq/kg oil): | max. 5 |
| Acid Value (mg KOH/g) : | max. 0.6 |
| Saponification value: | 188 – 195 |
| Unsaponifiable matter: | max. 1.8% |
| Refractive index at 20°C : | 1.472 – 1.476 |
| Density at 20°C (g/cm ³): | 0.915 – 0.923 |

| Fatty Acid Composition (%): | | Min. | Max. |
|-----------------------------|-----------------|------|------|
| C16:0 | Palmitic | 7.0 | 12.0 |
| C18:0 | Stearic | 3.5 | 6.0 |
| C18:1 | Oleic | 35.0 | 10.0 |
| C18:2 | Linoleic | 35.0 | 50.0 |
| C18:3 | Gamma Linolenic | 0.0 | 1.0 |
| C20:0 | Arachidonic | 0.0 | 1.0 |
| C20:1 | Gadoleic | 0.0 | 0.5 |
| C22:0 | Behemic | 0.0 | 0.5 |
| C22:1 | Erucic | 0.0 | 0.1 |

| | | |
|--------------------------|-----------------|-------------|
| Microbiological control: | Yeast: | < 100/g |
| | Mold: | < 100/g |
| | Coliform count: | < 10/g |
| | Salmonella: | absent/25 g |

| | | |
|---------------|----------|-----------|
| Heavy Metals: | Lead: | < 0.1ppm |
| | Mercury: | < 0.1ppm |
| | Cadmium: | < 0.01ppm |
| | Arsenic: | < 0.1 ppm |

Pesticide residues: < 0.03 ppm

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Phytochemical Properties

Fatty acids, mainly oleic and linoleic acid, lignan sesamin and sesamol, steroids β -sitosterol and campesterol, vitamin E

Pharmacological and Clinical Data

Reduction of serum cholesterol level, antihypertonic, immunosuppressive, increase of hepatic fatty acid oxidation, laxative

Uses

Treatment of obstipation, food, skin care and cosmetic

Contradictions

None known

Side Effects

None known

Interactions with other drugs

None known