

Desert Date Oil



Data sheet

Family: Balanitaceae

INCI name: Balanites roxburghii seed oil

Renewable botanical origin: seeds

Geographic origin: Intertropical Africa (Burkina Faso)

Color: light yellow

Form: liquid

Odor: characteristic

NO TERRITORIAL RESTRICTION KNOWN

Identity card



Composition and processing

Almonds are harvested, washed, mechanically sorted by a union of women's groups in Burkina Faso.

The oil is obtained by almonds cold-pressing.

Composition	q ^T (%)
Fatty acid - Omega 9	0,1
Fatty acid – Omega 3	0,1
Linoleic acid	40
Oleic acid	36,5
Palmitic acid	12,8
Unsaponifiable content	± 0,4

- Refractive index 1,47
- Density 0,93
- Guaranteed acid index < 12 mg KOH/g
- Peroxyde index < 40 MeqO₂/Kg

Properties

- The fruit is rich in saponins that confer fungicidal and anti-inflammatory properties.
- The oil has following proven activities:
 - Anticancer concerning lungs, liver and brain.
 - Antiviral versus a simple herpes virus.
 - Antimicrobial against selected strains of Gram-positive, negative, Candida
 - Antimutagenic in relation to *Fasciola gigantica*
 - Anthelmintics against « hepatic worms » parasite.
- In vivo surveys have demonstrated oil non-toxicity.

References:

- Obidah W. et al *Journal of American Science* **2009**; 5: 13-16
- Ashaal H A Al et al *Journal of Ethnopharmacology* **2010**; 127:495-501
- Chapagain B. et al *Phytochemical Analysis* **2007**; 18:354-362

