



Egyptian Herbal Monograph

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## Volume 3

## Herbal Formulations Used in Egypt

Egyptian Drug Authority (EDA)

2026





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## Herbal Formulations Used in Egypt

### Pumpkin oil, Saw palmetto, Zinc

زيت قرع العسل / بلميط منشاري / زنك

#### 1. Names & Synonyms

##### Pumpkin (1)

*Cucurbita pepo* L.

**Family:** Cucurbitaceae.

**Syns:** *Cucurbita aurantia* Willd., *C. courgero* Ser., *C. esculenta* Gray, *C. fastuosa* Salisb., *C. melopepo* L., *C. ovifera* L., *C. subverrucosus* Willd., *C. verrucosus* L., *Pepo melopepo* Moench., *P. verrucosus* Moench., *P. vulgaris* Moench.

**Arabic:** kar-e-asal عسل قرع

**English:** Pumpkin.

##### Saw palmetto (2,3).

*Serenoa repens* (W.Bartram) Small.

**Family:** Arecaceae.

**Syns:** *Corypha repens* W.Bartram, *Corypha obliqua* W.Bartram, *Diglossophyllum serrulatum* (Michx.) H. Wendl. ex Salomon, *Sabal serrulata* (Michx.) Schult.f., *Chamaerops serrulata* Michx., *Brahea serrulata* (Michx.) H. Wendl. .

**Arabic:** Balmit minshary بلميط منشاري

**English:** Serenoa , Saw palmetto and Saw palmetto berry (4- 6).

#### 2. Parts used for medicinal purpose

**Pumpkin oil:** Seeds (1,7).

**Saw Palmetto:** Dried ripe fruit (8).



### 3. Major chemical constituents

#### Pumpkin

- **Fixed oil:** composed mainly of linoleic, oleic, palmitic and stearic acids (9).
- **Phytosterols:**  $\beta$ -Sitosterol,  $\Delta^{5,24}$  - stigmastadienol,  $\Delta^7$ -stigmastenol,  $\Delta^7$ -avenasterol (10).
- **Phytoestrogens:** including lignans (as secoisolarisiresinol), isoflavones (as genistin, daidzin and formononetin) and quercetin (11).
- **Phenolic acids:** Protocatechuic, caffeic, syringic, vanillic, *p*-coumaric and ferulic acids (11).
- **Protein:** composed mainly of the amino acids: arginine, glutamic and aspartic acids (12).
- **Others:** Vitamin E (Tocopherols), micro-elements such as phosphorus, magnesium, potassium, zinc and iron (12) as well as  $\beta$ -carotene (13).

#### Saw palmetto (14)

- **Fatty acids and their glycerides:** Monoacylglycerides (1-monolaurin, 1-monomyristicin). Oleic acid (unsaturated) and capric acid, caproic acid, caprylic acid, lauric acid, myristic acid, palmitic acid and stearic acid (saturated).
- **Steroids:**  $\beta$ -Sitosterol, campesterol and stigmasterol.
- **Carbohydrates:** Invert sugar, mannitol, high molecular weight polysaccharides with galactose, arabinose and uronic acid identified as main sugar components.
- **Other constituents:** Flavonoids (e.g. rutin, isoquercitrin, kaempferol), pigment (carotene), resin, tannin and volatile oil.

### 4. Medicinal Uses (Indications)

Relief of lower urinary tract symptoms related to benign prostatic hyperplasia or related to an overactive bladder, after serious conditions have been excluded by a physician.



## 5. Herbal preparations correlated to medicinal use

Combination of pumpkin oil, saw palmetto lipidic sterolic extract (Extraction solvent: CO<sub>2</sub> in supercritical condition) and zinc.

**Herbal preparations are in pharmaceutical dosage forms. The pharmaceutical form should be described by the pharmacopoeia full standard term.**

## 6. Posology and method of administration correlated to medicinal use

### Adults and elderly

Combination of 1200 mg of pumpkin oil, 352 mg of saw palmetto extract and 60 mg zinc daily.

### Duration of use:

- Long-term use, up to 6 months, is possible. Typically, symptoms reduction is experienced within 1–2 months' treatment
- If the symptoms persist during the use of the medicinal product, a doctor or pharmacist should be consulted.

**Method of administration:** Oral use.

## 7. Contraindications.

- Hypersensitivity to the active substance(s) or to other plants of the same families (15,16).
- The use in children and adolescents under 18 years of age is contraindicated because of its effects on androgen and oestrogen metabolism and the lower urinary tract symptoms in these populations requires medical supervision (6, 17,18).

## 8. Special warnings and precautions for use

- If complaints worsen or if symptoms such as fever, spasms or blood in the urine, painful urination, or urinary retention occur during the use of the medicinal product, a doctor or a pharmacist should be consulted. (6, 16,17).
- To be used under medical supervision.



## 9. Interactions with other medicinal products and other forms of interaction

- Diuretics: The medicinal product may increase the action of diuretics; use together cautiously (6).
- A few cases of suspected interactions with warfarin have been reported. Increased INR-values have been described (6,16).
- Zinc interacts with antibiotics (quinolone antibiotics & tetracycline antibiotics), Cisplatin, Penicillamine, Cephalexin, Ritonavir, medications for HIV/AIDS, Amiloride, Atazanavir (19).
- Zinc may inhibit the absorption of copper (19).
- The absorption of zinc may be reduced by calcium salts, oral iron, penicillamine and trientine, Also, the absorption of oral iron, penicillamine and trientine may be reduced by zinc (19).

## 10. Fertility, pregnancy and lactation

- The use during pregnancy and lactation is not relevant and avoided (6, 8).
- No fertility data available.

## 11. Effects on ability to drive and use machines

-No studies on the effect on the ability to drive and use machines have been performed.

## 12. Undesirable effects

- Abdominal pain, nausea, vomiting, diarrhea, abdominal pain (especially when taken on an empty stomach), allergic or hypersensitivity reactions may occur such as skin rash, headache, increase of transaminases or gamma-glutamyl transferases and reversible gynecomastia (16).
- Zinc supplementation can cause a copper deficiency. A physician or a pharmacist should be consulted (19).
- If adverse reactions occur, a doctor or a pharmacist should be consulted.



**13. Overdose (6).**

- Taking very high doses is likely unsafe and might cause stomach pain, vomiting, and many other problems.

**14. Relevant biological activities**

- Not required as per Egyptian guidelines for registration of herbal medicines.

**15. Additional information**

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**16. Date of compilation/last revision**

20/04/2026



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هَيْئَةُ الدَّوَاءِ الْمَصْرِئِيَّة

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