

## Pyrethrum Monograph

### 1. Name and Synonyms

**Scientific Name:** *Chrysanthemum cinerariifolium*

**Family:** Asteraceae

**English common name:** Pyrethrum daisy or Dalmation pellitory

**Arabic common name:** غرديب شروني



### 2. Morphology:

- **Flower (medicinal part of the plant):** Solitary flower heads (white ray flowers surrounding a yellow centre) are at the end of long slender peduncles, consisting of white lingual florets and yellow tubular florets.
- **The fruit:** achene.
- **Leaves, Stem:** Pyrethrum is a perennial, 20 to 60 cm high plant with an erect stem covered in alternating, pinnate, roughly serrated leaves.

### 3. Active constituents

- Pyrethrin: pyrethrins I and II, cinerins I and II, jasmoline I and II
- Flavonoids: including apigenin-, luteolin- and quercetin-7- O-glucosides and -glucuronides
- Lignans: sesamine Polyynes: thiophenes, including 5-(4-hydroxy-1-butenyl)- 2,2'-bithienyl.
- Sesquiterpenes: sesquiterpene lactones, including pyrethrosine, cyclopyrethrosine.

### 4. Pharmacological applications:

Pyrethrum is a natural organic insecticide, commonly used to control mosquitoes, fleas, flies, moths, ants, and many other pests. It is also used as an insecticide for scabies, head lice, crab lice and their nits. They are amongst the safest insecticides for use around food.

#### 5. Suitable methods of administration:

Externally as a liquid extract. (Area must be rinsed after use.) Some homeopathic remedies contain Pyrethrum mother tincture and dilutions which are applied as solutions, sprays and shampoos.

#### 6. Side effects:

No health hazards or side effects are known in conjunction with the proper administration of designated therapeutic.

#### 7. Contraindication:

Avoid using pyrethrum or pyrethrin products if you have asthma. Allergy to ragweed and related plants: The pyrethrum flower or pyrethrin extracted from it may cause an allergic reaction in people who are sensitive to the family Asteraceae.

#### 8. Examples of drugs in the market:



#### 9. Reference

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