



Centurion
UNIVERSITY

Shaping Lives...
Empowering Communities...

EXPERIMENT NO: 2

Peppermint leaves: Folia Menthae

Latin name: *Mentha pipetita L.*

Mentha spicata L.

Family: *Labiatae*

(Garden Mint)

(Spearmint)



Mentha piperita



Mentha spicata

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- Perennial herbaceous plant.
 - It needs day time length 15-16 hours.

- The leaves are thin & dentate.
- Colour: green.
- Odor: aromatic.
- Taste: aromatic & pungent.
- Origin: Europe & Mediterranean regions.

Chemical constituents :

- I. Peppermint oil (V.O) 1-2% yellow & pungent: 1. menthol 50-90%
2. menthone 3. menthafurane 4. menthyl acetate 5. valeric acid 6.cineole
7. jasmone .
- II. Resins .
- III. Tannins .

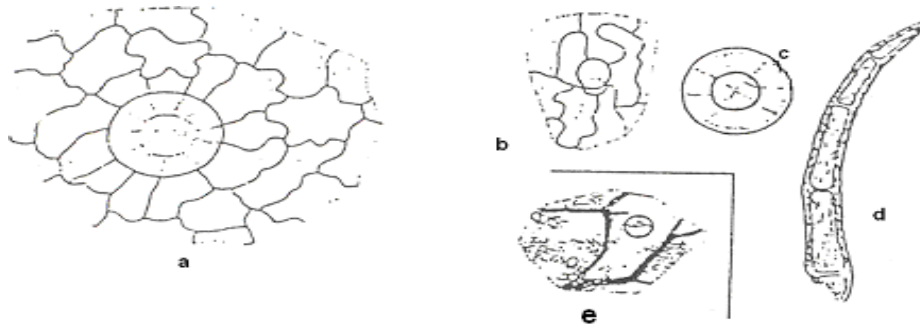
Uses:

1. Carminative.
2. Flavoring agent (gums, tooth paste, mouth wash).
3. Internally menthol has a depressant effect on the heart.
4. Antiseptic.
5. Antipruritic.
6. Counter irritant (menthol).

Microscopical examination

The characteristic key elements are:

1. Multicellular non-glandular hair (translucent hairs) (d).
2. Epidermis with gland scales (a).



- a) Epidermal fragment with gland scale.
- b) Epidermal fragment with glandular hair.
- c) Younger glandular hair.
- d) Fragment of multicellular non-glandular hair.
- e) General view.