

Source

The dried ripe fruit of *Leonurus heterophyllus* Sweet[#] in the family Labiatae

Property and flavour

Mild cold; pungent and bitter

Meridian affinity

Pericardium and liver meridians

Actions

To circulate blood and regulate menstruation; to clear the liver and brighten the eyes

Note:

- * Its name in Chinese Pharmacopoeia (2020 Edition) is "Leonuri Fructus".
- # The scientific name of the plant source in Chinese Pharmacopoeia (2020 Edition) is "Leonurus japonicas Houtt.".

Micro-morphological features

Shape

Triangular pyramidal with the acute end pointing down



Relatively broad and flat at the apex

Cuneate at the base

Dorsal view

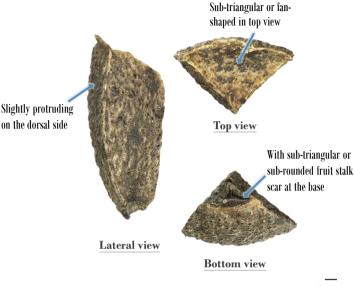


With 1 protruding longitudinal ridge in the middle of the ventral side

Ventral view

0.2 mm

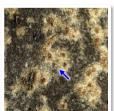
Fructus Leonuri



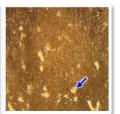
0.2 mm

Surface

Blackish-brown, brown or greyish-brown, with protruding maculae (→), which are grey, greyish-brown, brown or blackish-brown, irregularly shaped and unevenly distributed







Powder microscopic features

Crystal

Prism of calcium oxalate



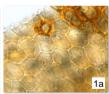


Square, hexagonal or sub-spherical, scattered or present in sclerenchymatous cell of endocarp; polychromatic under polarized light microscope

Pericarp

Exocarp cell







Colourless, light yellow or yellowish-brown, appears polygonal in surface view (1), some cell walls are thickened, yellowish-brown or brown; lateral side (2) is barely found, rectangular, with reticulate pits on cells with thickened walls

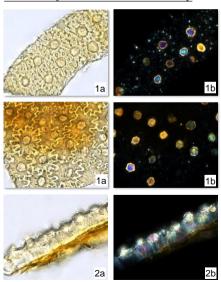
a. features under bright field; b. features under polarized light

Mesocarp cell



Yellowish-brown or brown, appears polygonal in surface view, anticlinal wall is usually sinuous

Sclerenchymatous cell of endocarp



Light yellow or brownish-yellow, irregularly shaped in surface view (1), with thick or slightly thick wall, anticlinal wall is deeply sinuous, some can be observed with dotted pits; lumen is located on one side in lateral view (2); cell usually contains 1 large prism of calcium oxalate and numerous small crystals of calcium oxalate appears polychromatic and sclerenchymatous cell appears white under polarized light microscope

Testa

Epidermal cell of testa



Light yellow, yellowish-green or yellowish-brown, usually adheres to endosperm cell or sclerenchymatous cell of endocarp, appears polygonal in surface view, anticlinal wall is sometimes beaded, some with indistinct cell boundaries

a. features under bright field; b. features under polarized light

50 µm

Fructus Leonuri

Key identification features

Micro-morphology

- Triangular pyramidal with the acute end pointing down
- With irregularly shaped and unevenly distributed maculae on the surface

Powder microscopy

- Exocarp cell: appears sub-polygonal in surface view, scattered with sclerenchymatous cell
- Sclerenchymatous cell of endocarp: irregularly shaped in surface view, usually contains prism
 of calcium oxalate

For more information, please refer to website of the Hong Kong Chinese Materia Medica Standards:

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