

# Semen Impatientis\*

1 cm

Source

The dried ripe seed of *Impatiens balsamina* L. in the family Ralsaminaceae

Property and flavour

Warm; mild bitter and pungent; slightly toxic

Meridian affinity

Lung and liver meridians

Actions

To break blood; to soften hardness; to resolve masses

Note:

<sup>\*</sup> Its name in Chinese Pharmacopoeia (2020 Edition) is "Impatientis Semen".

# Micro-morphological features

# Shape

## Flattened ovate or sub-spherical



Hilum is located at one end and slightly protruding

Lateral view

1 mm

# **Semen Impatientis**

Though with hard texture, the rough outermost layer of testa can be easily abraded to show its brown part Testa is thin, with greyish-white or milky white cotyledon observable after abgasion



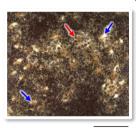


Surface view

1 mm

### Surface

Brown or greyish-brown, rough, with small and dense warty protuberances  $(\rightarrow)$  and sparse white or light yellowish-brown maculae  $(\rightarrow)$ ; maculae are relatively dense near the hilum  $(\rightarrow)$ , usually radially arranged





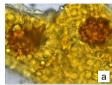
0.5 mm

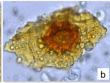
0.5 mm

# Powder microscopic features

## **Trichome**

#### Glandular scale

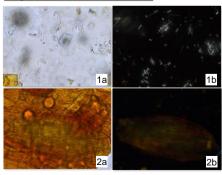




Head is sub-spherical, consists of 5-10 cells, lumen filled with yellowish-brown substances

# Crystal

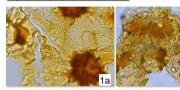
# Raphide of calcium oxalate



Numerous, usually scattered (1) or in bundles, sometimes present in bundle in large sacciform cell (2); bright white or polychromatic under polarized light microscope

## Testa

## Epidermal cell of testa



Usually broken, irregularly shaped in surface view, with sinuous anticlinal wall, usually densely covered with glandular scales on the surface (1); below which sometimes has large sacciform cell containing bundle of raphide of calcium oxalate (2)

Semen Impatientis

## **Key identification features**

## Micro-morphology

- Flattened ovate or sub-spherical
- Hilum is located at one end and slightly protruding
- Brown or greyish-brown, rough, with small and dense warty protuberances and sparse white or light yellowish-brown maculae

## Powder microscopy

- Glandular scale: head is sub-spherical, consists of 5-10 cells, lumen filled with yellowish-brown substances
- Raphide of calcium oxalate: numerous, usually scattered or in bundles, sometimes present in bundle in large sacciform cell
- Epidermal cell of testa: usually broken, irregularly shaped in surface view, usually densely covered with glandular scales on the surface

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