

Source

The dried ripe seed of *Trigonella foenum-graecum* L. in the family Leguminosae

Property and flavour

Warm: bitter

Meridian affinity

Kidney meridian

Actions

To warm the kidney and strengthen yang; to dissipate cold and alleviate pain

Note:

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

# Micro-morphological features

# Shape Rhomboid, rectangular, trapeziform or oblong



1 mm



Surface view

With 1 deep groove visible on both sides in surface view, slantly dividing the seed into 2 asymmetrical parts







Hilum is located at the intersection of the deep grooves on the ventral side, sub-rounded

Ventral view



Top view



**Bottom view** 

Sub-ovate 01 sublanceolate in top and bottom views

Surface

Yellowish-brown or yellowish-green, with irregular granular protuberances





0.5 mm

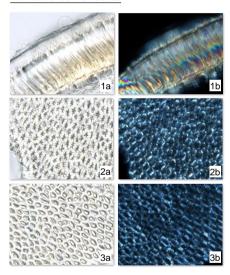
Odour

Aromatic

## Powder microscopic features

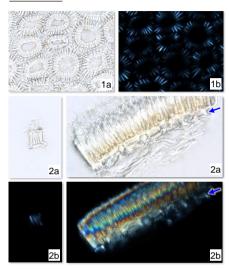
#### Testa

#### Palisade cell of testa



Colourless or light yellowish-brown, cells occur in 1 row in lateral view (1), covered with thick cuticle, outer wall is relatively thick, with acute apex and 1 luciferous band; appears sub-polygonal in top view (2), lumen is relatively small, with distinct pit canals; lumen is relatively large in bottom view (3); bright white or polychromatic under polarized light microscope

#### Brace cell



Colourless, usually adheres to palisade cell of testa; appears polygonal or sub-polygonal in surface view (1), lumen is large, with dense radial striations; cells occur in 1 row (→) in lateral view (2), dumbbell-shaped or trumpet-shaped, upper end is relatively narrow, with distinct stripes; white under polarized light microscope

Semen Trigonellae

### **Key identification features**

### Micro-morphology

- Rhomboid, rectangular, trapeziform or oblong
- With 1 slant deep groove on both sides in surface view
- ⊙ With irregular granular protuberances on the surface

### Powder microscopy

- Palisade cell of testa: cells occur in 1 row in lateral view, with acute apex; with distinct pit canals in top view, lumen is relatively large in bottom view
- Brace cell: with dense radial striations in surface view and distinct stripes in lateral view

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

Trigonellae Semen — HKCMMS (Vol 5)

Government Chinese Medicines Testing Institute Department of Health Enquiry hotline: 3188 8079

Website: www.cmro.gov.hk

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