

# WELCOME

# TO



# FDSPharmacy

Learn and Educate

This is an Education Platform

We provide Free PDF Notes and Videos Classes for Pharmacy Students

Web Site <http://www.fdspharmacy.in/>

You tube <https://www.youtube.com/channel/UC77iEsiuZolU4pB8WAJIR5Q>

What app <https://chat.whatsapp.com/IzSgXtFEvhS4LN5xhUgq5z>

Telegram <https://t.me/+cvxm17xSloA4MjVI>

Face book <https://www.facebook.com/Fdspharmacy-10576431994440/>

E-mail [fdspharmacyinfo@gmail.com](mailto:fdspharmacyinfo@gmail.com)

# Diploma in Pharmacy 1<sup>st</sup> Year

## Pharmacognosy

### Experiment

To study morphological characters of Ispaghula

#### Aim:

To study morphological characters of Ispaghula

#### Reference :

Dr. Gupta G.D , Dr. Sharma Shailesh , Kaur Navjit , “Practical Manual of Pharmacognosy” Published by Nirali Prakashan , Pg.No 1 - 4

#### Biological Sources:

Ispaghula consists of dried seeds of *plantago ovate*, Forskal, belonging to family- Plantaginaeca.

The husk consisting of epidermis is separated from the seeds which has its own importance.

#### Chemical Constituents:

- Ispaghula seeds contain about 10% mucilage which is present in the eoidermis of testa.
- Mucilage consist of two complex polysaccharides of which one is soluble in cold water and the other soluble in hot water. Chemically it is pentosan and aldobionic acid.
- Pentosan on hydrolysis yield xylose and arabinose and aldobionic acid yields galactournic acid rhamnose. Protein and fixed oil are present in endosperm and embryo

## Morphological Characters:

<b>Colour</b>	Pinkish gray to brown
<b>Odour</b>	None
<b>Taste</b>	Mucilaginous
<b>Shape</b>	Ovate, boat shaped, cymbiform
<b>Size</b>	1.5 – 3.5 m long, 1 – 1.18 mm wide
<b>Weight of 100 seeds</b>	0.15 – 0.19 g
<b>Appearance</b>	Seeds are hard, translucent and smooth, the dorsal (convex surface) consist of a small elongated glossy reddish brown spot at the center while the ventricle ( concave surface ) has a cavity nil urn covered with a thin whitish membrane.

### Uses :

- ✓ It is useful in dysentery, Chronic, Diarrhoea, in cases of Duodenal Ulcers and piles It works effectively as a smooth agent.

### Result

The morphological study of Ispaghula was performed.

**Hello**

**Friends**

**If you Get Any Help From This Notes /  
Videos**

**Next You Turn To Help Us**

**Please Contribute Some Amount**

**To Our**

**FDSPharmacy Team**

**Phone pe           6398439940**

**Paytm               6398439940**

**Google Pay       6398439940**



Amir Khan

**Thank You**

**Keep Supporting**