# Digitalis

### **DIGITALIS**

- Synonyms: Foxglove leaves, digitalis leaves
- **Biological source:** It is obtained from dried leaves of *Digitalis pupurea*
- Family: Scrophulariaceae
- It is required to contain atleast 0.3 % of total cardenolides calculated as Digitoxin.
- After collection from the field, leaves are dried immediately at a temperature not exceeding 60°C and are stored in moisture proof container.





Digitalis purpurea – Purple foxglove

## Microscopy

- It is dorsivental leaf
- It has anomocytic stomata
- Covering and glandular trichomes on both sides.
- Glandular trichomes are short, unicellular stalk and unicellular or bicellular head.
- Covering trichomes are uniseriate with colapsed cells.
- Digitalis is free from Ca oxalate crystals and sclerenchyma.
- Starch grains are present.
- Collenchyma is present.

### **Geographical source**

 It is a biennial herb which is grown in England and also cultivated in India, Europe and USA.

#### **Macroscopy**

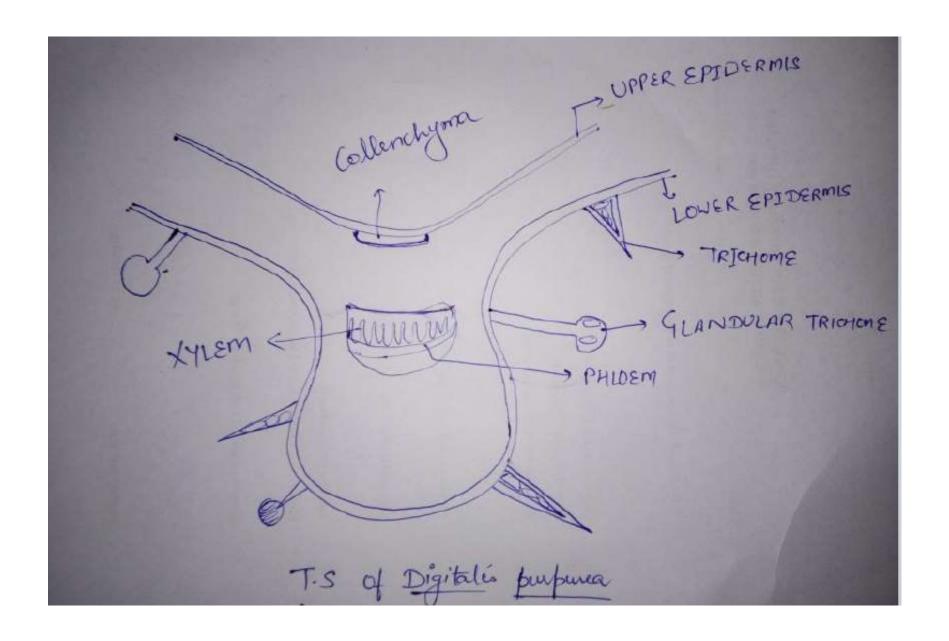
Colour : Dark greyish green

– Odour : Odourless

– Taste : Distinctly bitter

Size : length – 10 to 30 cm

Width – 4 to 10 cm



" Chemical Constituents Syn foxglore leaves dried leaves of Digitalis purpuses chemical Consti-Cordiac gly cosides =) 02-045% (Stores 94 cosides) Brook dneddears) Purpurca glycoside A Digeto xigenin + 3 digetoxore ? Le Cardiai > adorosidiH 1) Digitonin artaloxin Voso dorin glucoverodoxin

Com	pounds	R1	R2
~ ~	3 0 0E ZZ 0F 13		

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 
 $R_7$ 
 $R_8$ 

#### **Uses**

- It is used in the treatment of congestive heart failure.
- Diuretics

