

#### Balsam of Tolu





Thomas balsam
Opobalsam
Resin Tolu
Balsam of Tolu.
Sambranee



**○ Tolu Balsam** is a balsam obtained from *Toluifera* balsamum L., (Myroxylon toluiferum), belonging to family: Leguminosae.

### **Geographical source**

- Native to Columbia, the drug is collected in Caribbean islands and Cuba.
- The name Tolu has been derived from a place situated near Cartagena on the north coast of Columbia.
- In India it is found in the states of Karnataka, kerala and West Bengal.
- It has also been introduced into African states of Ghana, Sierra Leone, Tanzania, Uganda and Zaire.

## Preparation

- べ Tolu Balsam is considered to be a pathological product produced in the new wood formed as a result of inflicted injury.
- Real For its preparation, it is an usual practice to make 'V' shaped incisions deep into the body of the main trunk.

R The exudate thus produced is collected either in cups or gourds held strategically just at the base of each incisions.

#### **Characteristic Features**



# Chemical Constituents

- The drug contains resin esters (75-80%) viz., toluresinotannol cinnamate along with a small proportion of the benzoate;
   volatile oil (7-8%)-containing chiefly benzyl benzoate; free cinnamic acid (12-15%); free benzoic acid (2-8%); vanillin and other constituents in small quantities.

#### **Chemical Tests**

1. An alcoholic solution of **Tolu Balsam** (0.2% w/v) where treated with a FeCl<sub>3</sub> solution (0.5% w/v), the appearances of a green colour takes place.

2. Treatment of 1 g of the drug with 5 ml of 10% w/v KMnO<sub>4</sub> solution when subjected to gentle heating yields benzaldehyde.



1. It is used extensively in perfumery, confectionery and chewing gums.

2. It is used widely as an expectorant in cough mixture.3. It also finds its application as an antiseptic in the form of its tincture.