



PART-I

# Un-Organized Drugs

Lab No. 2

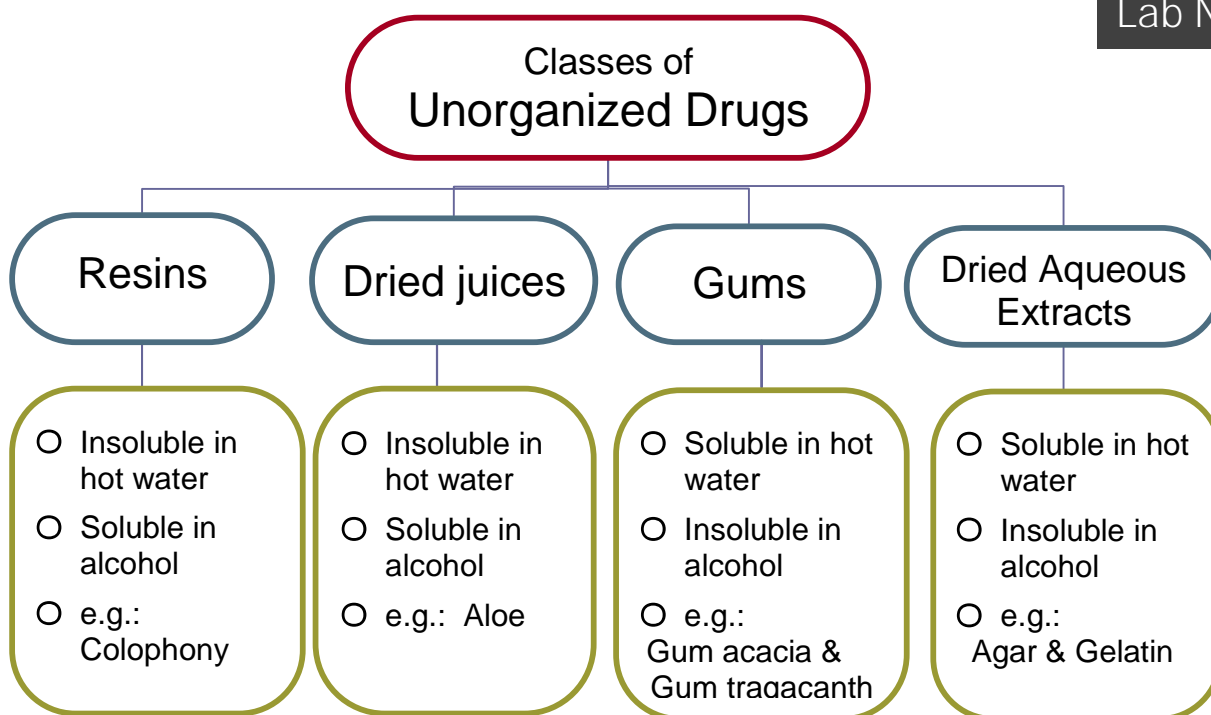
## U n O r g a n i z e d D r u g s

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They are dried constituents from animal or vegetable origin, they have no cellular structure. They are either:

- Derived from parts of plants or animals by some processes of:  
Exudation, extraction or decoction
- Natural secretions such as myrrh.

UnOrganized Drugs are classified based on their nature & origin into:



## 1- C o l o p h o n y

**Definition:** It is the residue left after the distillation of the volatile oil from the oleo-resin of various *Pinus* species

**Description:**

**Condition:** powder

**Color:** Yellowish

**Odour:** Characteristic

**Taste:** Bitter

**Solubility:** Insoluble in hot water, Soluble in alcohol.

**Chemical Tests:**

- In a dry test tube: dissolve very few amount of powder in 5 ml acetic anhydride, then add 1 drop of conc.  $\text{H}_2\text{SO}_4 \rightarrow$  purple  $\rightarrow$  violet
- In a dry test tube: dissolve very few amount of powder in least amount of  $\text{CHCl}_3$  + 5 ml petroleum ether, shake and filter  $\rightarrow$  take 2 ml of filtrate and add 4 ml cupric acetate  $\rightarrow$  emerald green color in the ether layer (upper layer)

**Uses:**

- Used as a diuretic
- Used in the preparation of some ointments and printing inks.

## 2- A c a c i a

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**Definition:** The dried gummy exudates obtained from the stem & branches of *Acacia senegal*

**Description:**

**Condition:** powder

**Color:** Yellowish white

**Odour:** odourless

**Taste:** mucilaginous

**Solubility:** Soluble in hot water forming viscous solution on cooling

Insoluble in alcohol.

**Chemical Tests:**

- 1- In a porcelain dish: soak the powder in drop of  $\text{H}_2\text{O}$  + N/50  $\text{I}_2$  solution

→ - ve (**NO** blue or crimson color).

2- In a test tube: Dissolve 1 g of powder in 10 ml H<sub>2</sub>O + lead sub acetate solution → flocculent ppt.

**Uses:**

- Used as a demulcent
- Emulsifying and bulking agent

### 3- T r a g a c a n t h

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**Definition:** It is the dried gummy exudate obtained from the stem of *Astragalus gummifer*. Gum tragacanth consists of two fractions, tragacanthin (30-40%) and bassorin (60-70%), they can be separated by simple filtration of a very diluted gum tragacanth.

**Description:**

**Condition:** Powder

**Color:** white

**Odor:** Odorless

**Taste:** mucilaginous

**Solubility:** soluble in hot water forming viscous solution on cooling,  
insoluble in alcohol

**Chemical tests:**

1- In porcelain dish put the powder soaked in water + N/50  $I_2$  → Blue spot.

**P.S.:** Bassorin gives yellow color with few blue spots.

2- Powder + 2ml alcoholic KOH heat on W.B. → Canary yellow color.

**Uses:**

- Demulcent in cough preparation
- Emollient in cosmetics