



## PART-II

# Un-Organized Drugs

Lab No. 3

### 4- Aloe

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**Definition:** The solid residue obtained by evaporating the juice flows from the cut leaves of different species of *Aloe*

**Description:**

**Condition:** Powder

**Color:** dark brown (black)

**Odor:** characteristic

**Taste:** very bitter

**Solubility:** soluble in alcohol, insoluble in water

**Chemical test:**

**Modified Borntrager's test:**

Powder + 5 ml dilute HCl + 5ml ferric chloride, heat in water bath for 15 min, filter while hot, then cool.

Take the filtrate +  $\text{CHCl}_3$  shake well, take the lower layer in test tube + dil. ammonia → rose red color in the ammonia layer (upper layer)

**Uses:**

- Purgative
- Cosmetic products

## 5- A g a r

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**Definition:** Dried mucilaginous substance prepared from various species of red algae

**Description:**

**Condition:** Powder

**Color:** yellowish white

**Odor:** slight

**Taste:** mucilaginous

**Solubility:** soluble in hot water forming jelly mass on cooling, insoluble in alcohol

**Chemical tests:**

In porcelain dish soak the powder in water + N/50  $I_2$  → crimson color

**Uses :**

- Preparation of culture media

## 6- G e l a t i n

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**Definition:** Is a protein derivative , obtained by evaporating an aqueous extract made from skinm bone cartilage ( animal tissue )

**Description:**

**Condition:** Powder or sheet

**Color:** pale yellowish

**Odor:** slight

**Taste:** mucilaginous

**Solubility:** soluble in hot water forming jelly mass on cooling, insoluble in alcohol

**Chemical tests:**

- 1- Powder solution + picric acid → yellow ppt
- 2- Powder solution+ tannic acid → buff ppt

**Uses:**

- Preparation of commercial food products

