

Monophasic

Monophasic dosage form refers to liquid preparation containing two or more components in one phase system it is represent by true solution.

The component of the solution which is present in a large quantity is known as "solvent" whereas the component present in small quantity is termed as "Solute".

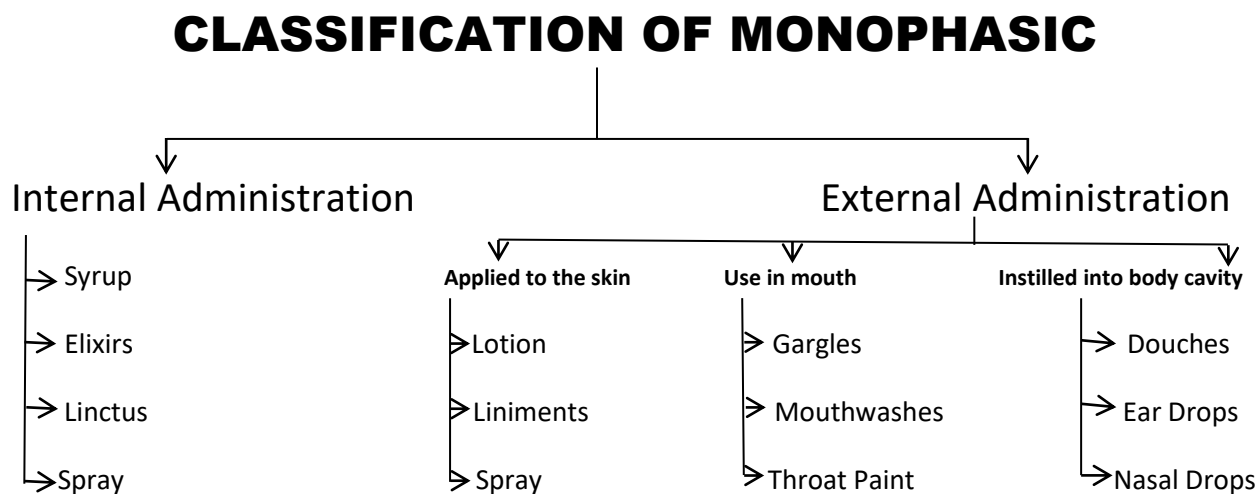
Advantage of Monophasic:-

- It is easy to swallow.
- It absorption is faster than Solid
- It can be administered by various routes **Example:** Oral, intramuscular, Enema for rectal use etc.

Disadvantage of Monophasic:-

- They bulky so difficult to transport and store.
- Water is commonly use vehicle which is prone to microbial growth. So addition of preservative is need.
- Drug stability reduces by hydrolysis or oxidation.
- They have shorter expire date than Solid dosage form.

Classification of monophasic



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Syrup:- They are potent, Viscous, Concentrated solution of sucrose or other sugar in water or any other suitable liquid.

Syrups are concentrated solutions of sucrose or other sugar to which medicament or flavoring agents are often added.

Classification of Syrup:-

- Simple Syrup
- Medicated Syrup
- Flavored Syrup

Simple syrup

Simple syrup is concentrated solution of sucrose in purified water. The concentration of sugar is 66% W/W.

Ex- Ginger syrup, Lemon syrup.

Preparation of simple syrup

According to B.P simple syrup is prepared by adding 1Kg of refined sugar to 500ml of boiling distilled water and heating until it is dissolved and adding Boiling distilled water until the weight of the whole is 1.5kg.

The specific gravity of the Syrup should be 1.33.

Medicated syrup

They are aqueous solution containing sugar and at least one water soluble active ingredient.

The sugar concentration should be between 65-67%

Ex- cough syrup, paracetamol syrup

Flavour Syrup

It typically consists of a simple syrup that is sugar with naturally occurring or artificial (Synthesized) flavour that are also dissolved in them.

Ex- Coffee, Tea, Cake, Ice-cream etc.