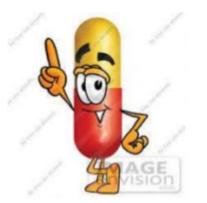
INTRODUCTION TO CAPSULE

Ms. Shubhashree Das Assistant Professor School of Pharmacy and Life Sciences rion University of Technology and Management shubhashree.das@cutm.ac.in





- Capsules are a <u>solid dosage form</u> in which the drug substance is enclosed in a water soluble shell or an envelope.
- A capsule shell is made up of gelatin
- Primarily intended for oral delivery.



ADVANTAGES

- The drug having <u>unpleasant odour and taste</u> can be administered by enclosing them in a tasteless shell.
- They are smooth, become very slippery when moist and can be <u>easily swallowed.</u>
- The ready solubility of gelatin at gastric pH provides <u>rapid release of medicament in the stomach</u>
- They are attractive in appearance



DISADVANTAGES

- The <u>hygroscopic drugs</u> cannot be filled in capsules.
- The <u>concentrated preparations</u> which need previous dilution are unsuitable for capsules because it may lead to irritation in stomach if administers as such.



TYPES OF CAPSULES

• Capsules are available in two types:

Hard gelatin capsules
Soft gelatin capsules.







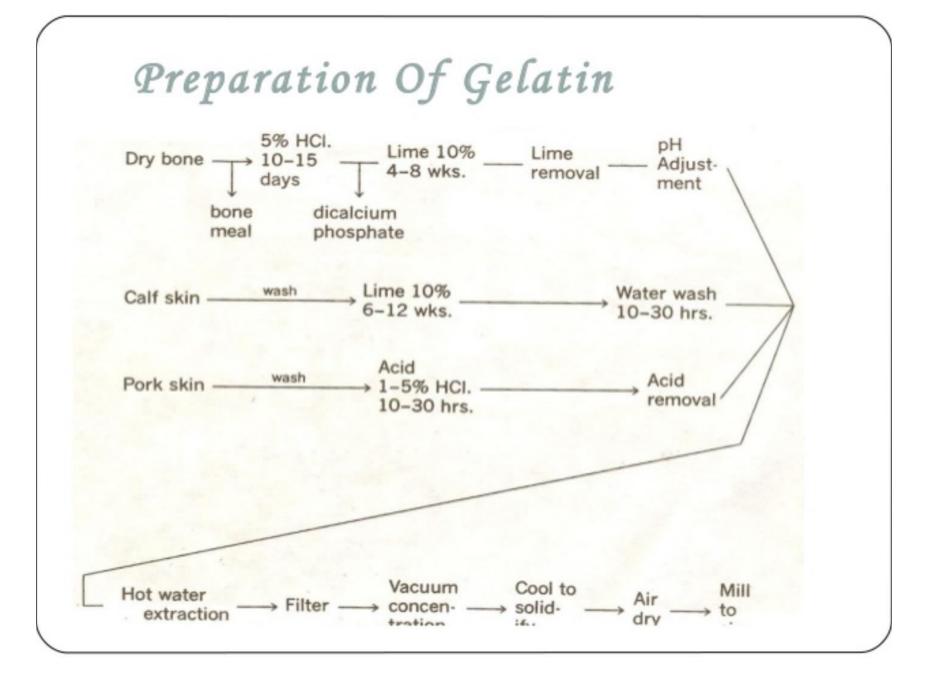




- Gelatin is heterogeneous product derived by hydrolytic extraction of <u>animal's collagen.</u>
- The sources of gelatin including animal bones, and frozen pork skin.

Types

- <u>Type A</u>: gelatin is mainly derived from pork skin by acid treatment
- <u>Type B</u>: gelatin is derived from bones and animal skin by alkaline process.



THANK YOU

