

# INTRODUCTION TO CAPSULE



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# DEFINITION

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



# DISADVANTAGES

- The hygroscopic drugs cannot be filled in capsules.
- The concentrated preparations 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:

1. Hard gelatin capsules
2. Soft gelatin capsules.





# GELATIN

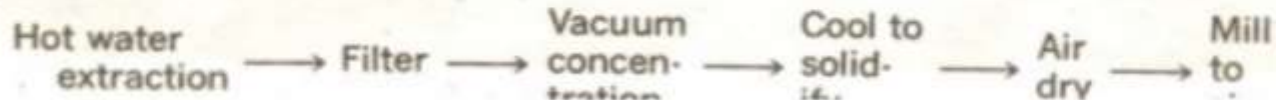
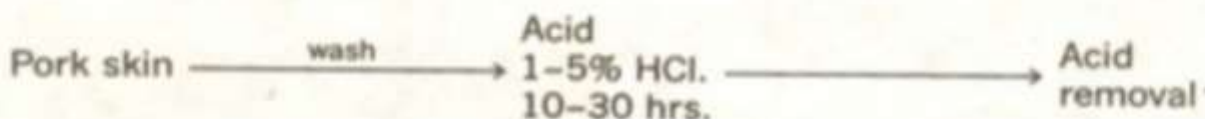
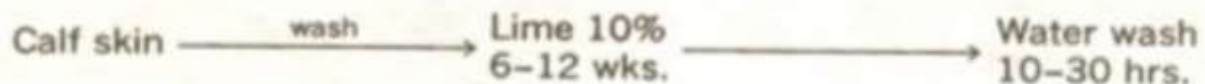
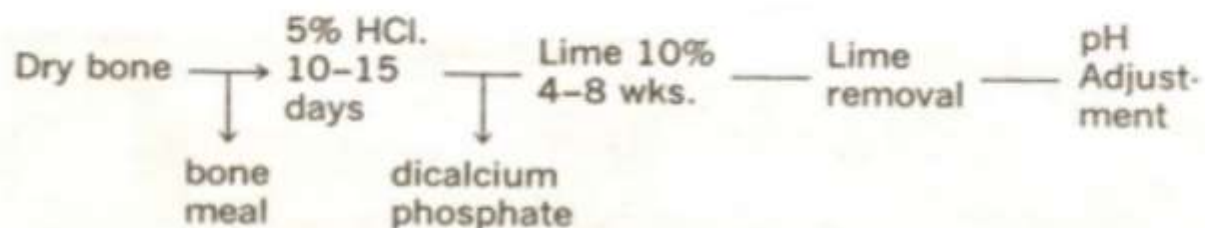


- Gelatin is heterogeneous product derived by hydrolytic extraction of animal's collagen.
- The sources of gelatin including animal bones, and frozen pork skin.

## Types

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

# Preparation Of Gelatin



THANK YOU

