



Types of Tablets

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Tablets



Tablets are solid dose pharmaceutical preparation . They may vary in size, shape, weight, hardness, thickness, and dissolution characteristics and in other aspects, depending on their intended use and method of manufacture





Tablets constitute approximately **90%** of all dosage forms clinically used to provide systemic administration of therapeutic agents. This widespread use of tablets has been achieved as a result of their convenience and also the diversity of tablet types.

Different types of tablet



Compressed Tablets

Compressed tablets provide rapid disintegration in gastric fluid after ingestion, allowing for quick absorption of the dosage form. They come coated or uncoated and are formed by compressing powdered, granular, or crystalline materials into the required shape.





Multiply compressed tablets

Multiply compressed tablets are prepared by subjecting the fill material to more than a single compression. The result may be a multiple-layer tablet or a tablet within a tablet, the inner tablet being the core and the outer portion being the shell





Coated Tablets



Coated Tablets. Coated tablets are compressed tablets that are coated in an additional layer, such as sugar or wax, to increase durability and ease of consumption. Examples include Diclofenac Potassium tablets.



Dispersible Tablets



Dispersible tablets can be formulated as uncoated or coated tablets and offer uniform dispersion when suspended in water.

Effervescent Tablet

Effervescent tablets are prepared by compressing granular effervescent salts that release gas when in contact with water. These tablets generally contain medicinal substances that dissolve rapidly when added to water.





Photo credit: www.biogrand.com



Film-Coated Tablets

Film-coated tablets are conventional tablets coated with a thin layer of polymer or a mixture of polymers capable of forming a skin-like film. location in the gastrointestinal tract.





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Sugar-coated Tablets

These are compressed tablets that have been coated with concentrated sugar solution to improve patient's compliance, increase aesthetic appeal, mask objectionable tastes or odours, increase stability and/or modify the release of therapeutic agent(s).





Enteric-coated Tablets



Enteric-coated tablets are compressed tablets that have delayed-release properties. They are coated with polymeric substances (such as cellulose acetate phthalate/cellulose acetate butyrate);



Chewable Tablets



Chewable tablets are big sized tablets which are difficult to swallow and thus, are chewed within the buccal cavity prior to swallowing. They are especially useful for administration of large tablets to children and adults who have difficulty swallowing conventional tablets or antacid formulations in which the size of the tablet is normally large and the neutralisation efficacy of the tablet



Buccal and Sublingual Tablets

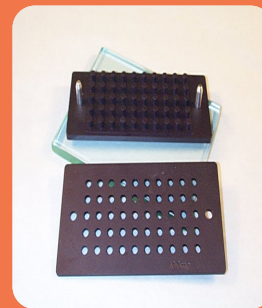
Buccal and sublingual tablets are small, flat, oval tablets that are intended to be dissolved in the buccal pouch (buccal tablets) or beneath the tongue (sublingual tablets) for absorption through the oral mucosa to produce a systemic effect.





Molded tablets

Certain tablets, such as tablet triturates, may be prepared by molding rather than by compression. The resultant tablets are very soft and soluble and are designed for rapid dissolution.





Extended release tablets

Extended-release tablets (sometimes called controlled-release tablets) are designed to release their medication in a predetermined manner over an extended period.



Summary

Tablets are solid dose Forms They may vary in size, shape, weight, hardness, thickness and in other aspects.

The types of tablet include: Compressed Tablets , Multiply compressed tablets , Film-Coated Tablets , Sugar-coated Tablets , Chewable Tablets and another Tablets .



Reference



- <https://www.pharmapproach.com/solid-dosage-forms-tablets/2/>
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- <https://www.lfatabletpresses.com/articles/type-of-tablets>





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