Review Article

AN OVERVIEW : FORMULATION ASPECTS FOR MOUTH DISSOLVING FILMS

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An oral film delivery is emerging as an advanced alternative to the traditional oral method of drug administration. Active Pharmaceutical Ingredient: Various classes of drugs can be incorporated into ODFs e.g., anti-histamine, anti-diarrheal, anti-depressants, vasodilators, anti-asthmatic, anti-emetic, etc.Solvent casting is the most commonly used method for the preparation of ODFs using water soluble excipients, polymers and drug which are dissolved in de-ionized water; consequently, a homogenous mixture is obtained by applying high shear forces generated by a shear processor.Hot melt extrusion is a technique in which a mixture containing drug, polymer and excipients is extruded under high temperature to form a homogenous mass which is then coasted to form smooth films.Semi Solid Casting Methodis preferably adopted when acid insoluble polymers are to be used in the preparation of the films. Acid insoluble polymers used to prepare films include: cellulose acetate phthalate, cellulose acetate butyrate. Acid insoluble polymer and film forming polymer should be used in the ratio of 1:4.

Keywords: Fast Dissolving Oral Film, FDFs, Oral Film,Solvent Casting, Hot-melt Extrusion.

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