



Medicated Chewing Gums

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ABSTRACT: Medicated chewing gum is a novel drug delivery system containing masticatory gum base with pharmacologically active ingredient and intended to use for local treatment of mouth diseases or systemic absorption through oral mucosa. Chewing gum is a combination of water-immiscible phase, known as gum base, emulsifiers, elastomers, fillers, anti-oxidants, softeners, sweeteners, food colourings, flavouring agents, waxes and in case of medicated chewing gum there is incorporation of active substances in the formulation for getting the desired therapeutic effect. Due to sweet and refreshing taste of chewing gum it can be used as Drug Delivery System (DDS). MAIN INGREDIENTS USED ARE: Elastomers (Polyisobutylene and latex), Plasticizers (Glycerol esters, terpenes resin), Fillers or Texturizers (Magnesium and calcium carbonate, talc), Resins (Polyvinyl acetate), Sweeteners (Sorbitol, corn syrups, sucrose), Colourants and Whitners (Titanium oxide), Flavouring Agents (Citrus oil, mint oil), Anticaking Agents (Silicon dioxide), Grinding Agents (Alkaline metal phosphate), Antioxidants (Ascorbic acid). METHODS OF PREPARATION : Conventional or Traditional method, Freezing, drying and tableting method, Direct compression method; ADVANTAGES: Reduced risk of overdosing, required no water to drink, good stability against light, oxygen and moisture, higher acceptance by children and teenagers, increased rate of effectiveness, both systemic and local drug delivery, good for rapid delivery, fewer side effects. REFERENCE: Vasita R., Katti, D.S. Int J Nanomedicine. 2006 Mar;1(1): 15-30. © 2019 iGlobal Research and Publishing Foundation. All rights reserved.

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