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Evaluation of film-forming potential and drug release profile of a *Lepidium sativum* Linn. gum

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Films were prepared using mucilage of gum of *Lepidium sativum* with different proportions of plasticizers. The films were casted on glass plates and dried under controlled evaporation. Films prepared with 0.15, 0.2 part of PEG 400; 0.15 part of glycerin and propylene glycol showed satisfactory drying after 24 h. They were evaluated for following parameters water uptake, tensile strength, folding endurance, and water vapor transmission rate. Microspheres were coated by using gum and Diclofenac sodium as model drug. *In vitro* drug release parameter was checked by dissolution apparatus using solution pH 7.2. From the physical parameters and drug release profile it is found that gum is having capacity to retain drug up to 12 hrs so it can successfully be employed as once a day oral controlled release drug delivery system.

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