



## Research Article

### **Fast dissolving oral films of almotriptan malate: Preparation and in vitro/in vivo evaluation**

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#### **Abstract**

Almotriptan malate is a second generation triptan used in acute treatment of migraine attacks. Present work aimed at preparing quick onset of action which is beneficial in migraine disease, aiding in the enhancement of bioavailability and is very convenient for administration without the problem of swallowing and using water. The film were prepared by using different grades of HPMC E3, E6, and E15, maltodextrin DE6 and other polymers by solvent casting method. They were evaluated for physical characteristics such as thickness, uniformity of weight, folding endurance, drug content, surface pH, percentage elongation and tensile strength and results were found to be satisfactory. The formulations were subjected to disintegration and in-vitro drug release test. The in vitro disintegration time of the optimized formulation F15 was 10 sec and drug release was found to be very fast i.e. 98.8% of within 10min. In vivo studies confirmed that their potential as an innovative dosage form to improve the bioavailability and considered to be potentially useful for the treatment of migraine where quick onset of action is desirable.

**Keywords:** Almotriptan malate, fast dissolving oral films, disintegration time, HPMC, bioavailability

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