
Abstract: The aim of present study was to prepare sustained release Eudragit® RS 100 microspheres containing lornoxicam using emulsion-solvent evaporation technique. The influence of drug concentration, polymer concentration, emulsifier concentration and stirring speed on particle size, shape, % yield, entrapment efficiency and in vitro release characteristics of microspheres were investigated. SEM studies confirmed that microspheres were spherical and uniform in shape. The results showed that % yield, particle size and entrapment efficiency of prepared microspheres was found to be in the range of 68.75±0.82 to 84.83±0.88%, 132.52±5.24 to 214.92±4.24 µm and 65.18±1.66 to 85.28±1.60% respectively. It was found that particle size and entrapment efficiency of microspheres were enhanced with increasing polymer ratio but reduced with increasing stirring speed and surfactant concentration. The in vitro release studies showed that Eudragit® RS 100 microspheres showed sustained effect up to 12 h.

Key words: Eudragit RS 100, Lornoxicam, Microspheres, Sustained release.

References: 30

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