

Tyagi LK, Kori ML. Formulation and *in vitro* evaluation of Eudragit® RS 100 microspheres containing lornoxicam prepared by emulsion-solvent evaporation method. *Bull. Pharm. Res.* 2013;3(3):112-20.

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.

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