

Microencapsulation of Naproxen by complex coacervation and aqueous colloidal dispersion part 1

Abstract

Abstract The techniques used to prepare microcapsules have been refined and detailed over the last few years, so that, the concept of the wide use of microcapsules has now become a reality, more recently, it has received an attention in various pharmaceutical purposes. Naproxen is non-steroidal anti-inflammatory drug, which has antipyretic and anti-inflammatory effects, the most its side effect are GI irritation locally and systemically, unpleasant taste, besides to its processing problems like bad flowability and light sensitivity. Naproxen was prepared as microcapsules by complex coacervation using acacia-gelatin coacervate as coating material, aqueous colloidal polymer dispersion (ACPD) using ethyl cellulose and sodium alginate as coating polymers, gelation using only sodium alginate and solvent evaporation using ethyl cellulose only as coating polymer.