

## عنوان مقاله:

The effect of Process Variables on the Size of Solid Lipid Nanoparticles Prepared from Beeswax and Carnauba wax

## محل انتشار:

دوازدهمین کنگره ملی مهندسی شیمی ایران (سال: 1387)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

S. Kheradmandnia - Chem. Eng. Dept., Tarbiat Modares University

M. Nosrati - Chem. Eng. Dept., Tarbiat Modares University

F. Atyabi - Faculty of Pharmacy, Tehran University, Tehran, Iran

E. Vasheghani-Farahani - Chem. Eng. Dept., Tarbiat Modares University

## خلاصه مقاله:

The objective of this work was to develop solid lipid nanoparticles (SLNs) containing Ketoprofen from Beeswax and Carnauba wax with the help of High Shear Homogenization (HSH) technique. The effect of process variables such as lipid content, homogenization time and ultra sonication time on the nanoparticle size and distribution was investigated. It was found that by increasing lipid content from 3% to 5% the mean particle size of SLNs increase from 88 to 629 nm. With the increasing homogenization time from 5 to 15 min mean particle size of SLNs decreased from 421 to 301 nm. Unexpectedly the size of SLNs increased from 155 to 526 nm by variation of ultrasonic time in the range of 0 to 22 min.

## کلمات کلیدی:

Drug delivery; Colloidal Carrier; Solid Lipid Nanoparticles; Ultrasonication; High Shear Homogenization

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/57714>

