

Abstract:**Background:**

Food affect the oral absorption of drugs, which may have clinical implications in terms of drug safety.

Purpose:

The aim of the present study was to investigate the influence of food on the oral absorption of nabumatone by evaluating the release of the drug from immediate release tablet in biorelevant media

Method:

The dissolution profiles of nabumatone 500 mg from immediate release tablets in compendia media as well as in biorelevant stimulated intestinal media mimicking fasting and fed conditions were determined.

Results:

Nabumetone release in compendia media containing high concentration of SLS was higher than in other different media. The drug release in biorelevant media was shown to be higher in fed state than the fasted state. Drug release in distilled water was negligible.

Conclusion:

Food increase the bioavailability of nabumetone by simulating bile salts secretions.