

## บทคัดย่อภาษาอังกฤษ (Abstract)

Formulations of acrylate matrix tablet were prepared by direct compression using indomethacin as a model drug. In this investigation, two types of acrylate polymer, Eudragit RL and Eudragit RS, were utilized. The effect of drug to polymer ratio on drug release from matrix tablet was also examined. The results from this study showed that the release of indomethacin from Eudragit RL matrix tablet was faster than that prepared from Eudragit RS. Increasing polymer concentration in the formulation resulted in decreasing drug release. For experiments using mixed polymer of Eudragit RL and Eudragit RS, it was also found that higher Eudragit RS content led to slower drug release. The use of hydrophobic glidant and lubricant, i.e. Zinc Stearate and Talcum resulted in slower release of the drug than without these excipients. However, mixed polymer between two kinds of Eudragits with a ratio of drug : Eudragit RL : Eudragit RS of 2:1:1 can control the release of drug up to 24 hours, where more than 95% of drug released from matrix tablet at 24 hours.