

() : : (.)
 (Röhm) RS100
 (Röhm) RL100
 (BASF) PEG6000
) CPS (.()
 (Merck)
 (Merck)
 (Merck)
 () %
 :
 (Bomem) FT-IR
 (Shimadzu-160) UV .()
 Caleva) USP ()
 (Velp)
 Shimadzu) / ()
 (Golden stars) .()
 (J/B Industrial Inc.)
 (Riken) .() ...
 (Corning) pH

()

UV

pH

UV

pH

Basket USP (Apparatus I) in vitro

pH= / pH= /

± rpm

± . / °C

()

pH=6.8

PEG 6000

UV

(volume correction)

$$C_{tn} = C_{on} + v/V \sum_{i=1}^{n-1} C_{oi}$$

(

n :C_{tn}

n :C_{on}

:v

%

:V

n

:Co

%

SD4

.()

(similarity factor)

:

n

(f₂<50)

$$f_2 = 50 \log \{ [1 + (1/n) \sum_{j=1}^n (R_j - T_j)^2]^{-0.5} * 100 \}$$

()

j=1

Bar

:n

:R_j

:T_j

/ kp

SD4

f₂

kp

FT-IR

FT-IR

Bomen 2000 FT-IR

(KBr)

(Elastic recovery)

cm⁻¹

cm⁻¹

RL RS

(c) (b)

PEG6000

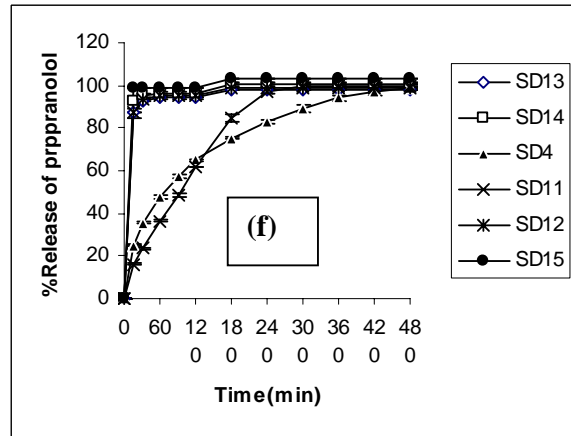
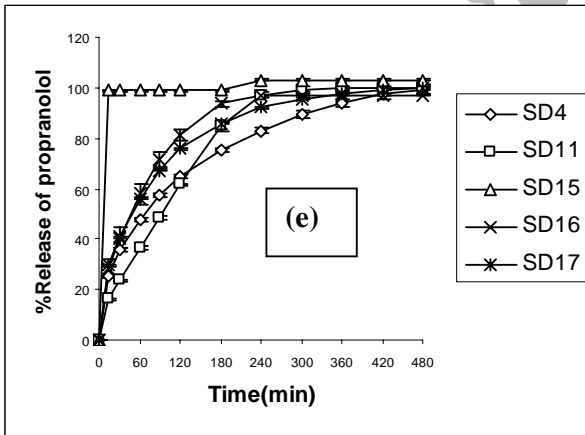
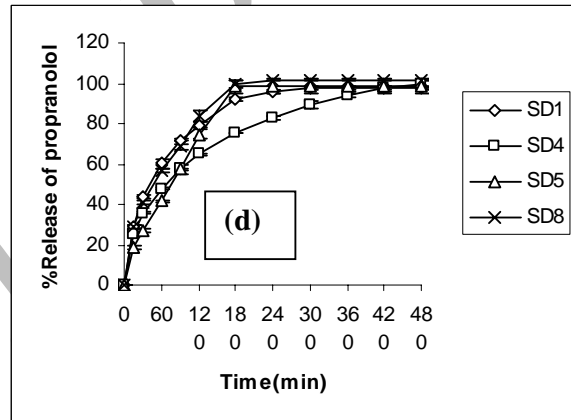
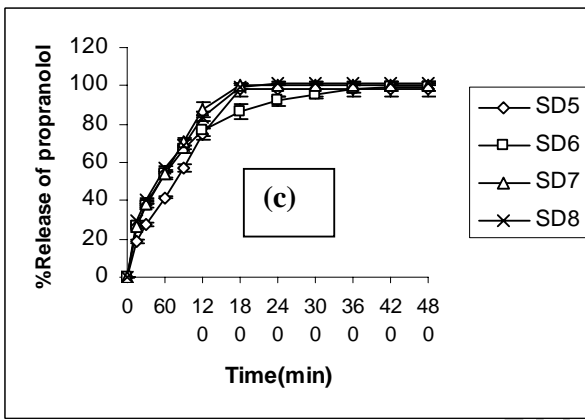
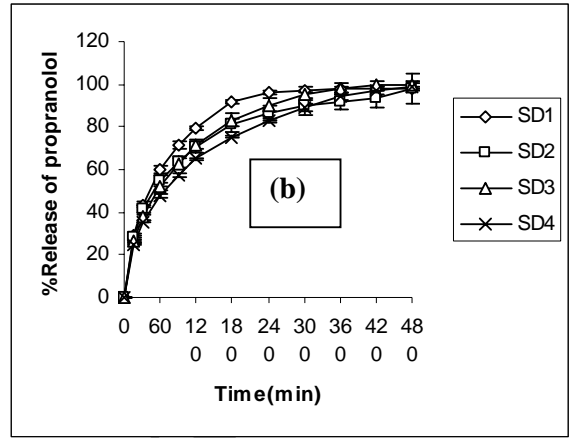
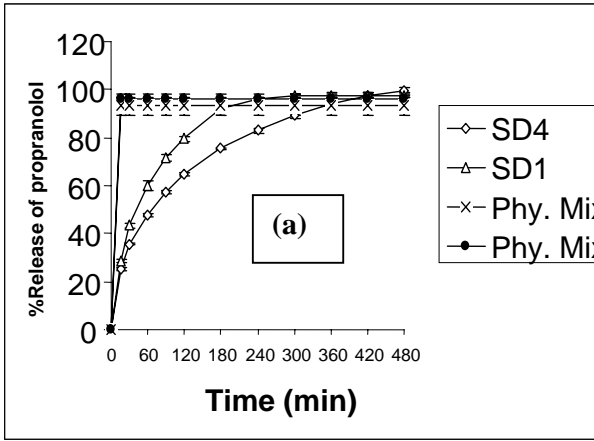
(

f₂)

a

(a)

f



($f_2 > 50$)

(d)

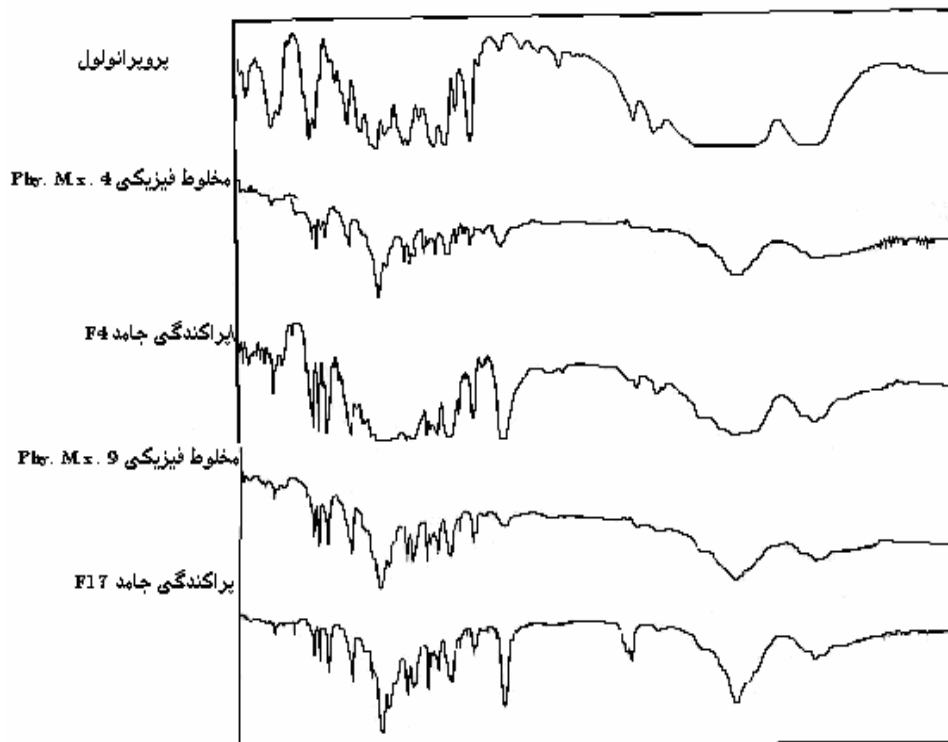
RS RL

| (g) | | | |
|------|----------------|----------------|---------|
| | Eudragit RS100 | Eudragit RL100 | PEG6000 |
| SD1 | | - | |
| SD2 | | - | |
| SD3 | | - | |
| SD4 | | - | - |
| SD5 | - | | |
| SD6 | - | | |
| SD7 | - | | |
| SD8 | - | | - |
| SD9 | | - | |
| SD10 | - | | |
| SD11 | | - | - |
| SD12 | | - | - |
| SD13 | | | - |
| SD14 | | | - |
| SD15 | - | - | - |
| SD16 | | - | - |
| SD17 | | - | - |
| SD18 | - | | - |

SD14 SD13
PEG PEG6000
(f) PEG
() ()

| (g) | | | |
|------------|----------------|----------------|---------|
| | Eudragit RS100 | Eudragit RL100 | PEG6000 |
| Phy. Mix.1 | | - | |
| Phy. Mix.2 | | - | |
| Phy. Mix.3 | | - | |
| Phy. Mix.4 | | - | - |
| Phy. Mix.5 | | - | - |
| Phy. Mix.6 | | - | - |
| Phy. Mix.7 | - | - | - |
| Phy. Mix.8 | | - | - |
| Phy. Mix.9 | | - | - |

| (kp) | (kp) |
|------|------------|
| SD1 | SD15 |
| SD2 | SD16 |
| SD3 | SD17 |
| SD4 | SD18 |
| SD5 | Phy. Mix.1 |
| SD6 | Phy. Mix.2 |
| SD7 | Phy. Mix.3 |
| SD8 | Phy. Mix.4 |
| SD9 | Phy. Mix.5 |
| SD10 | Phy. Mix.6 |
| SD11 | Phy. Mix.7 |
| SD12 | Phy. Mix.8 |
| SD13 | Phy. Mix.9 |
| SD14 | |



) SD12

() SD15 (PEG

PEG

(.)

PEG

IR

PEG

PEG

()

References:

1. Jantzen G. M. and Robinsoln J. R., Sustained and controlled Release drug delivery systems In: Banker G. S. and Rhodes C. T., Modern Pharmaceutics, 3rd Ed., Marcel Dekker, New York, 575-593 (1996).
2. Ford J.L., the current status of solid dispersions. Pharm. Acta Helv., 61, 69-88 (1986).
3. Aceves J. M., Cruz R., Hernandez E., Preparation and characterization of furosemide-eudragit controlled release system. Int. J. Pharm., 195, 45-53 (2000).
4. Pignatello R., Ferro M., Guidi G. D., Salemi G., Vandelli M. A., Guccione S., Geppi M., Forte C., Puglisi G., Int. J. Pharm., 218, 27-43 (2001).
5. Martindale, The complete drug reference, 32nd ed., The Pharmaceutical Press, London, 937 (1999).
6. Drug Facts and Comparisons, 55th ed., Facts and Comparisons, St. Louis, pp. 476-488(2001).
7. Costa P., An alternative method to the evaluation of similarity factor in dissolution testing, Int. J. Pharm., 220, 77-83 (2001).
8. Fassihi A.R., Parker M.S., Pourkavoos N., Solid dispersion controlled release: effect of particle size, compression force and temperature. Drug Dev. Ind. Pharm., 11, 523-435 (1985).