Fig. 1

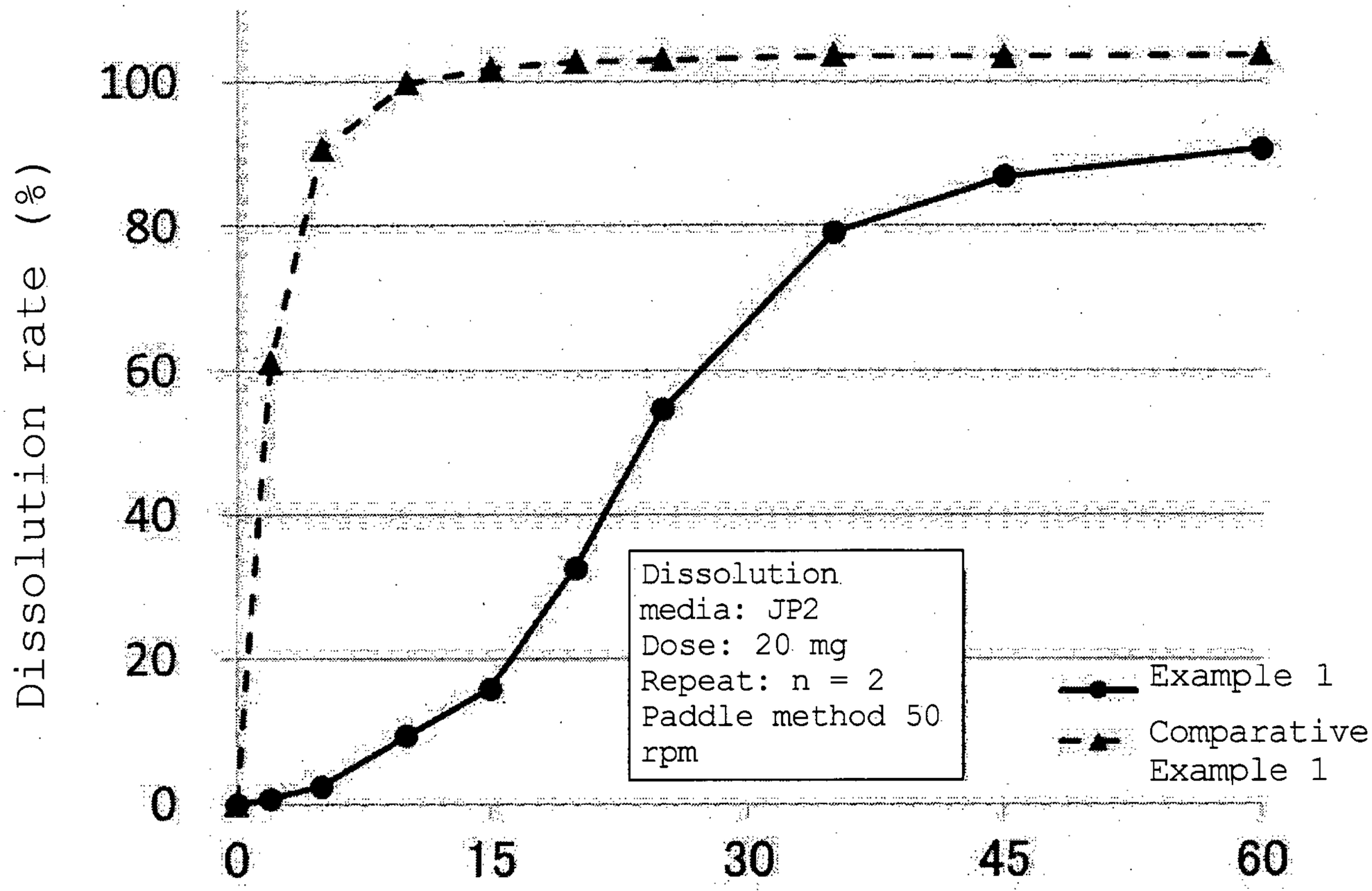

100
80
60
40
20
0
Dissolution rate (%)
0
15
30
45
60
Dissolution time (min)
Dissolution
media: JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50
rpm
Example 1
Comparative
Example 1

Fig. 2

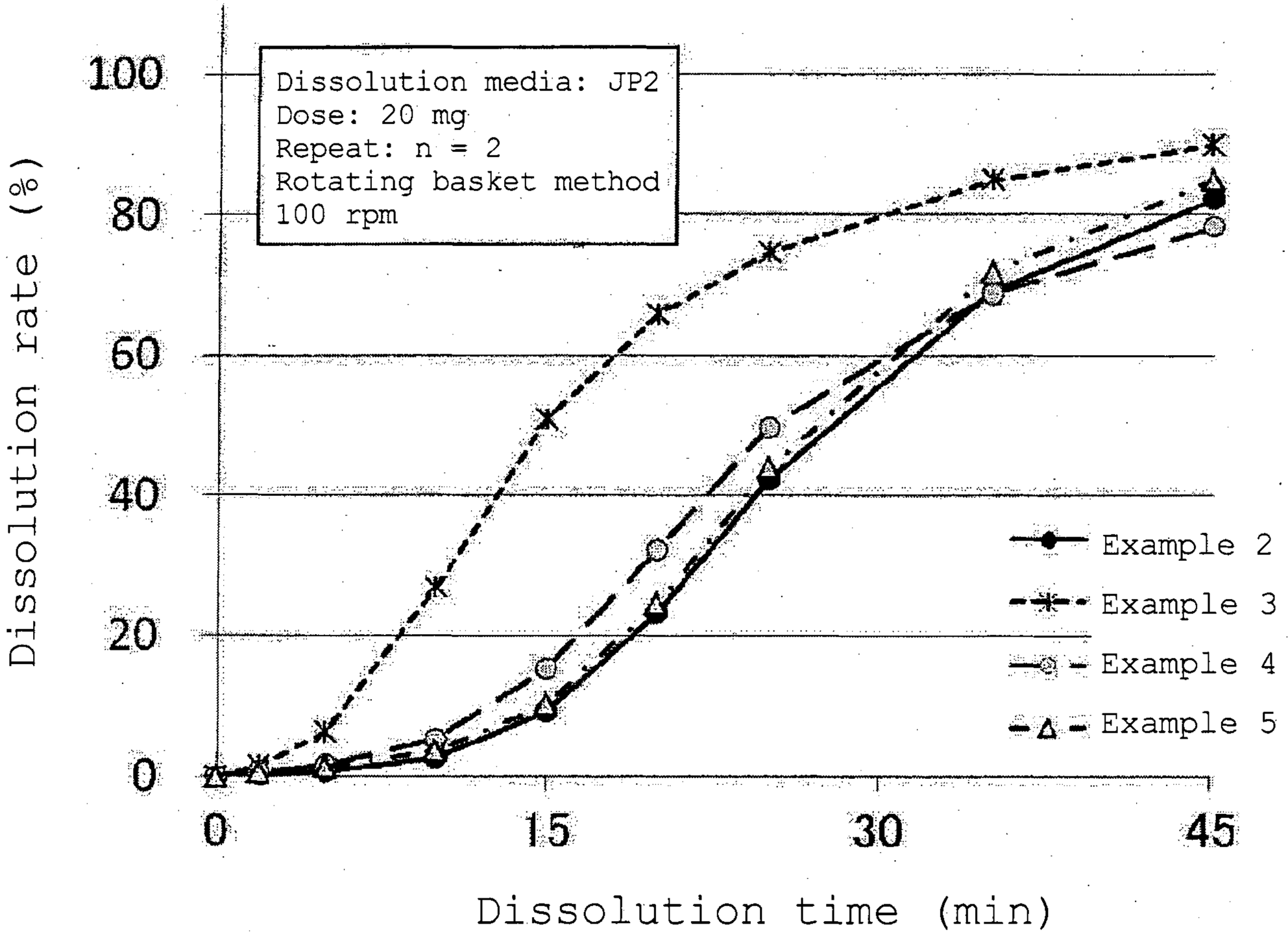

Dissolution media: JP2
Dose: 20 mg
Repeat: n = 2
Rotating basket method
100 rpm
Dissolution rate (%)
100
80
60
40
20
0
0
15
30
45
Dissolution time (min)
Example 2
Example 3
Example 4
Example 5

Fig. 3

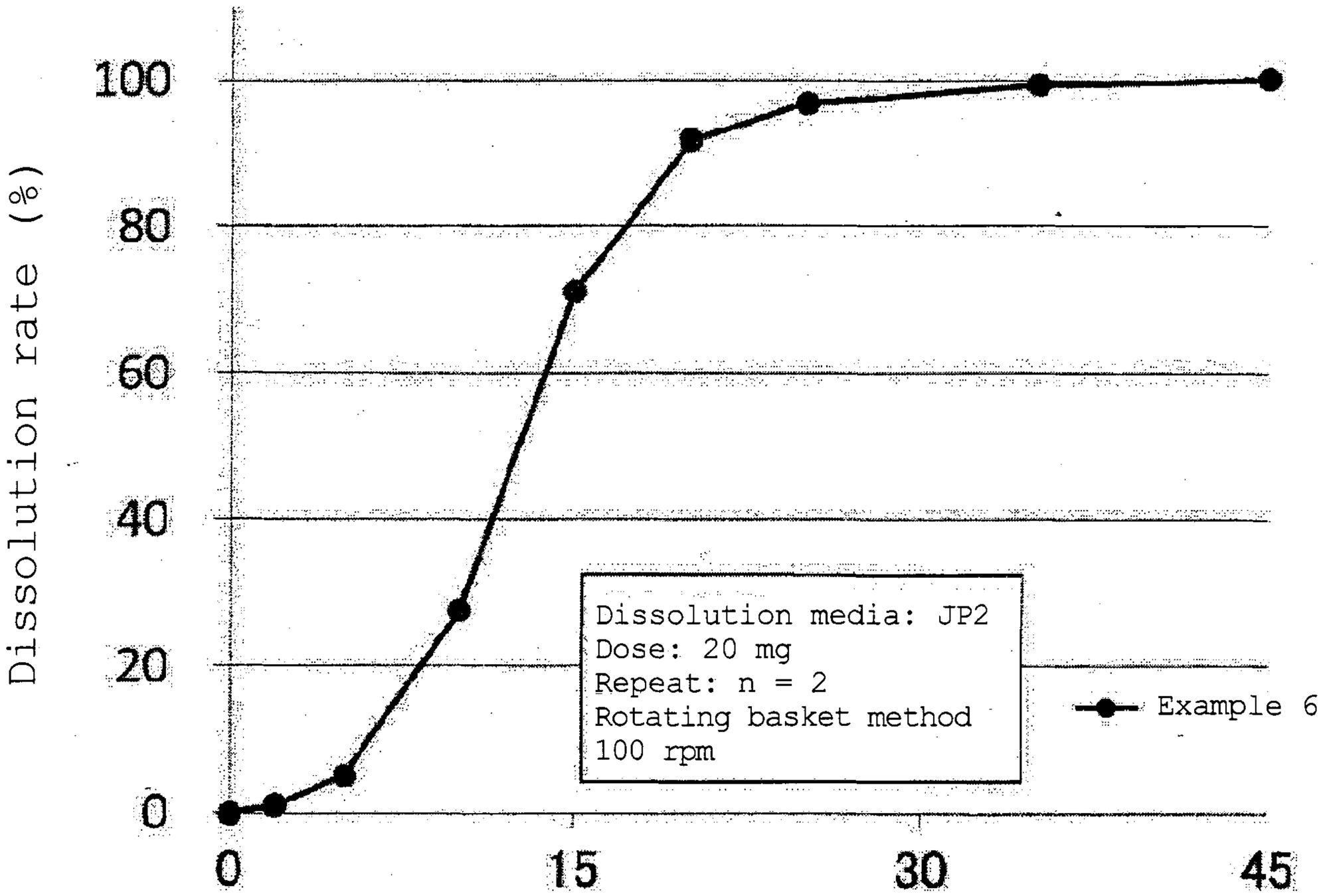

100
80
60
40
20
0
Dissolution rate (%)
0
15
30
45
Dissolution time (min)
Dissolution media: JP2
Dose: 20 mg
Repeat: n = 2
Rotating basket method
100 rpm
Example 6

Fig. 4

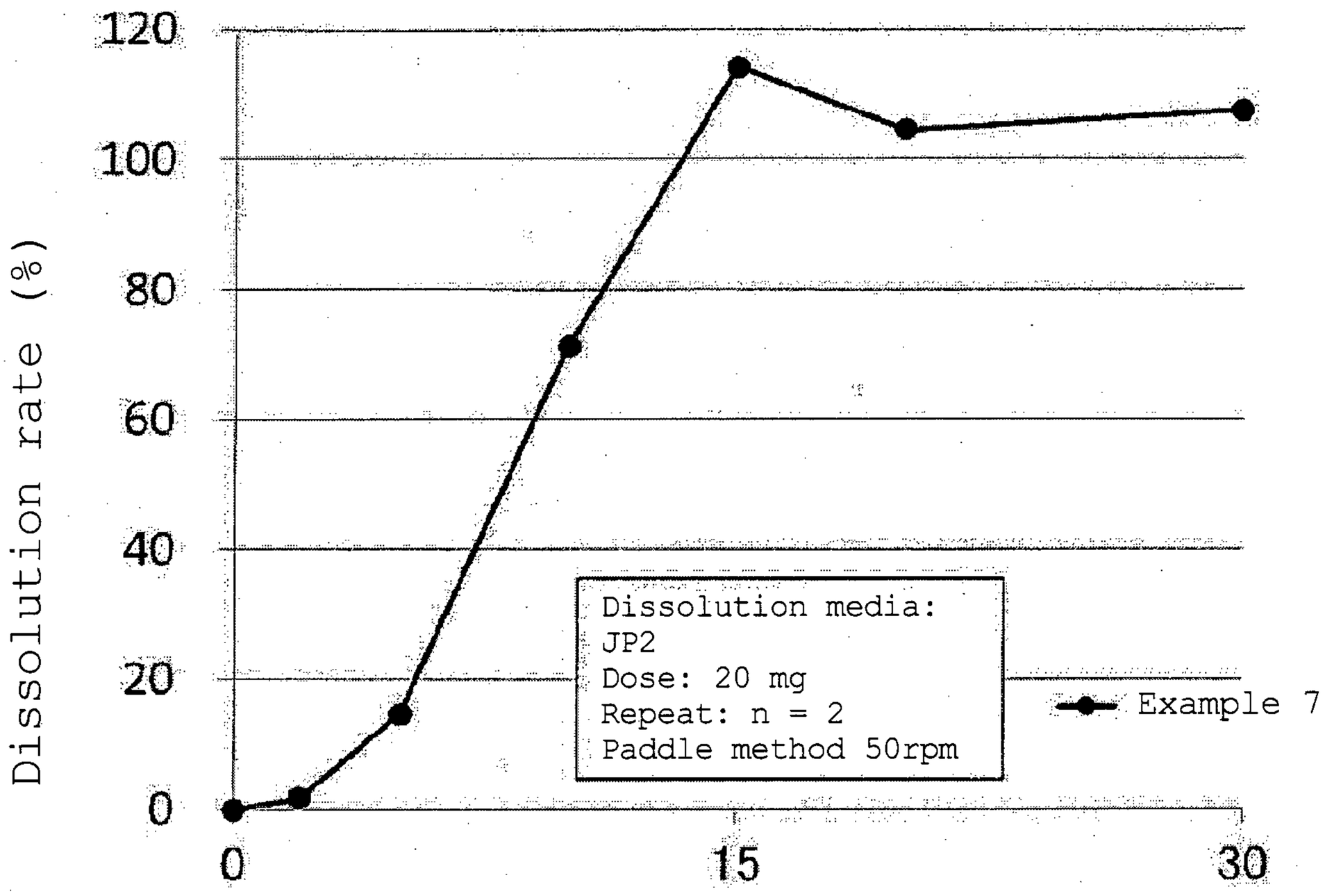

120
100
80
60
40
20
0
Dissolution rate (%)
0
15
30
Dissolution time (min)
Dissolution media:
JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50rpm
Example 7

Fig. 5

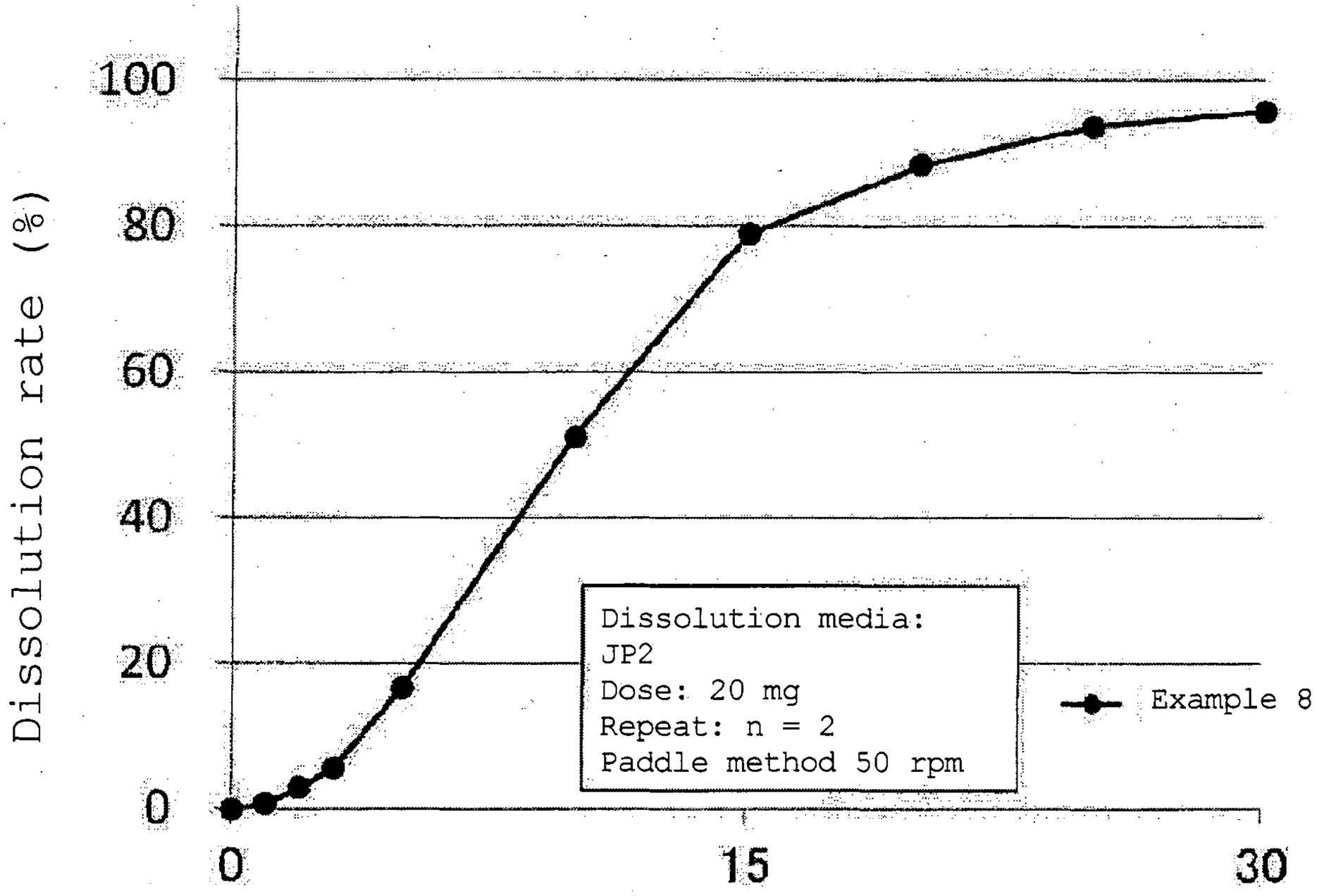

100
80
60
40
20
0
Dissolution rate (%)
0
15
30
Dissolution time (min)
Dissolution media:
JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50 rpm
Example 8

Fig. 6

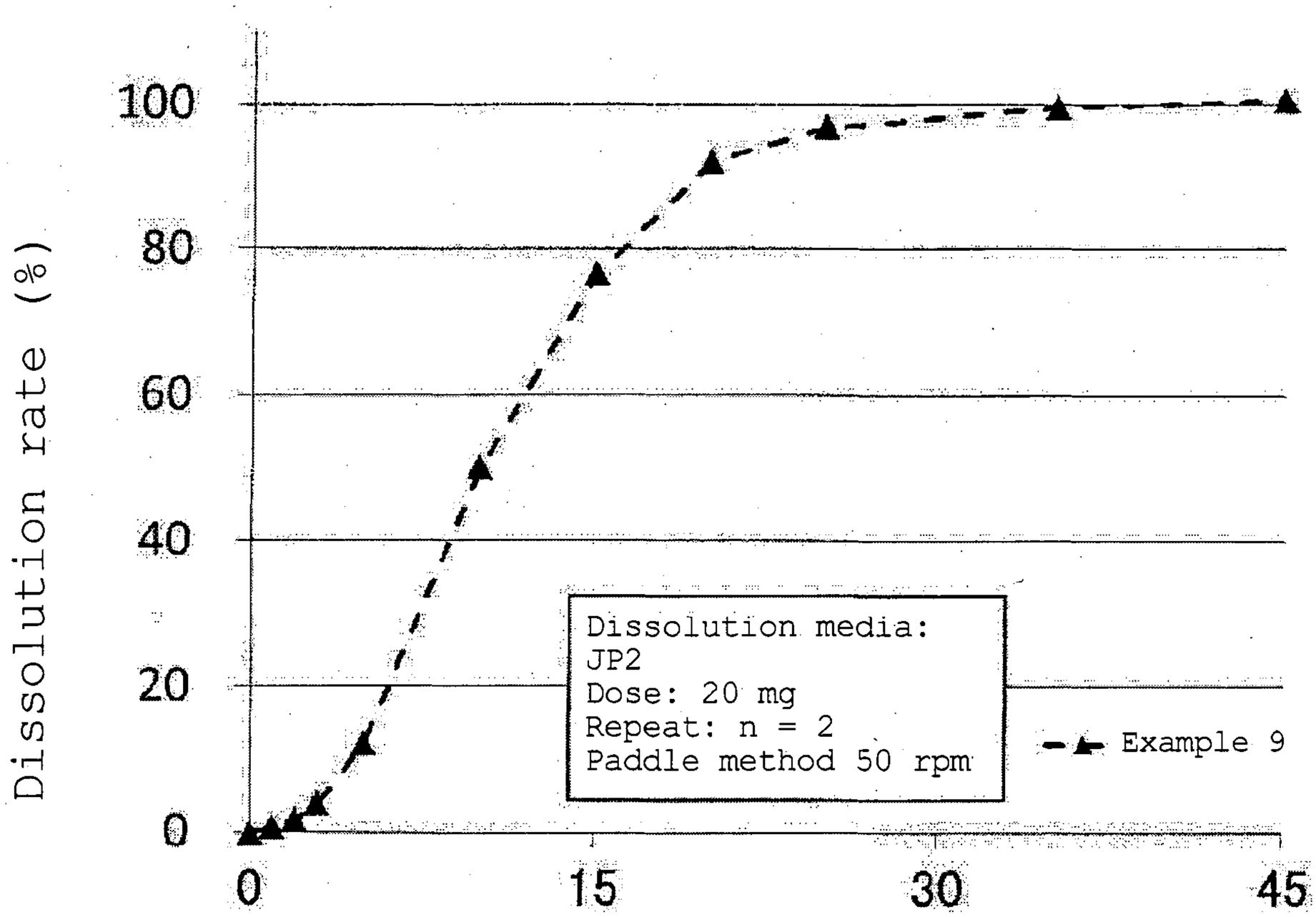

100
80
60
40
20
0
Dissolution rate (%)
0
15
30
45
Dissolution time (min)
Dissolution media:
JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50 rpm
Example 9

Fig. 7

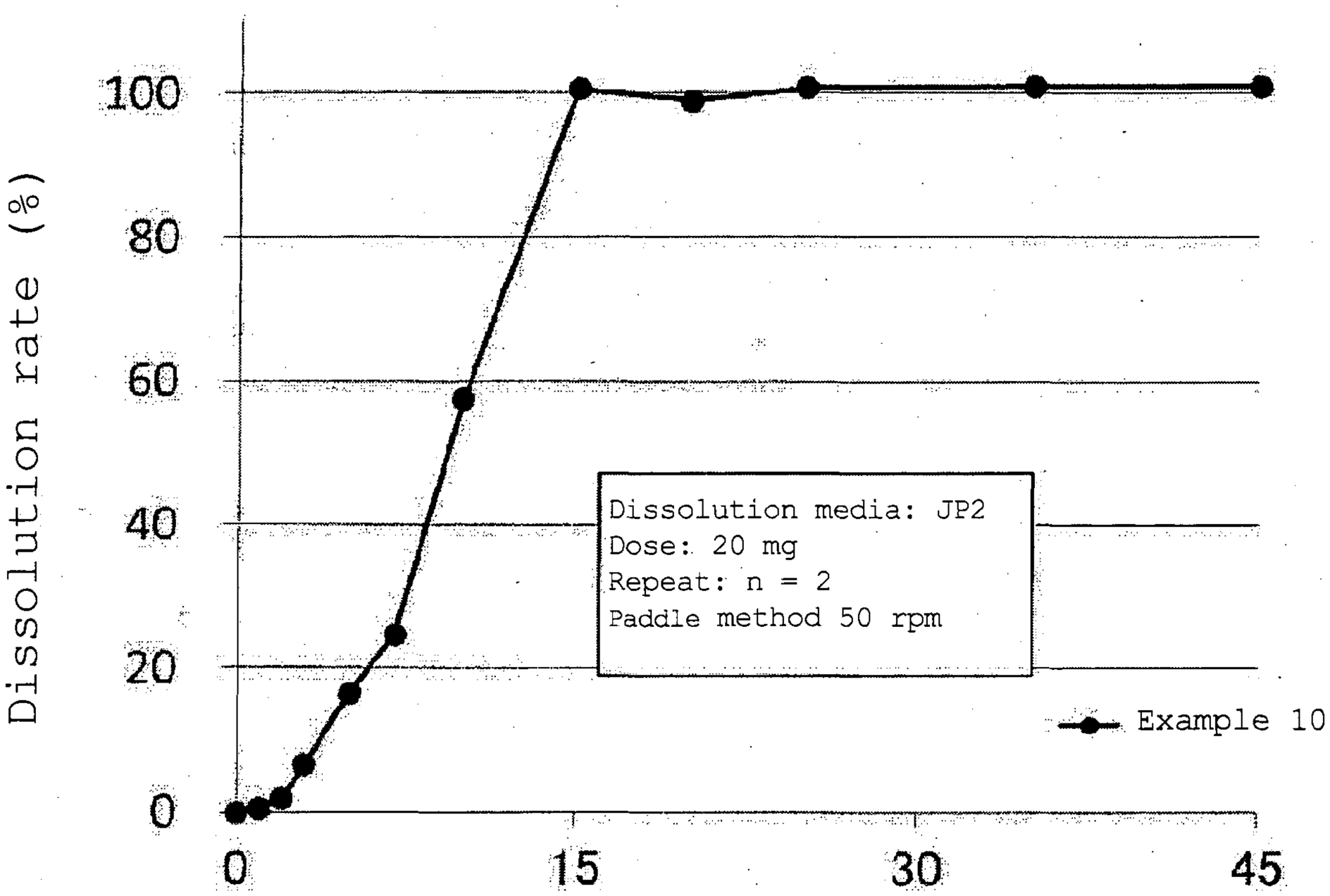

100
80
60
40
20
0
Dissolution rate (%)
0
15
30
45
Dissolution time (min)
Dissolution media: JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50 rpm
Example 10

Fig. 8

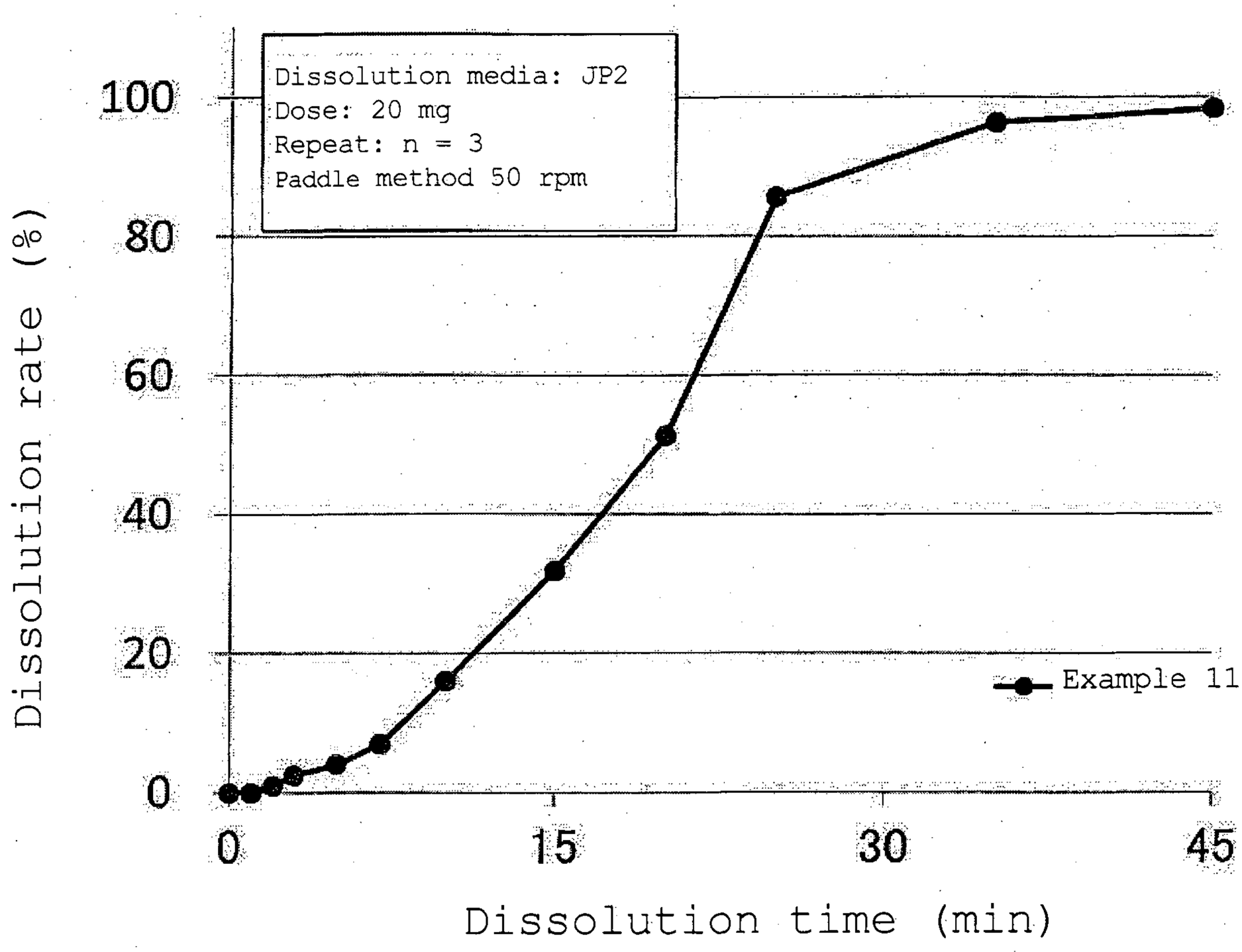

Dissolution media: JP2
Dose: 20 mg
Repeat: n = 3
Paddle method 50 rpm
Dissolution rate (%)
100
80
60
40
20
0
0
15
30
45
Dissolution time (min)
Example 11

Fig. 9

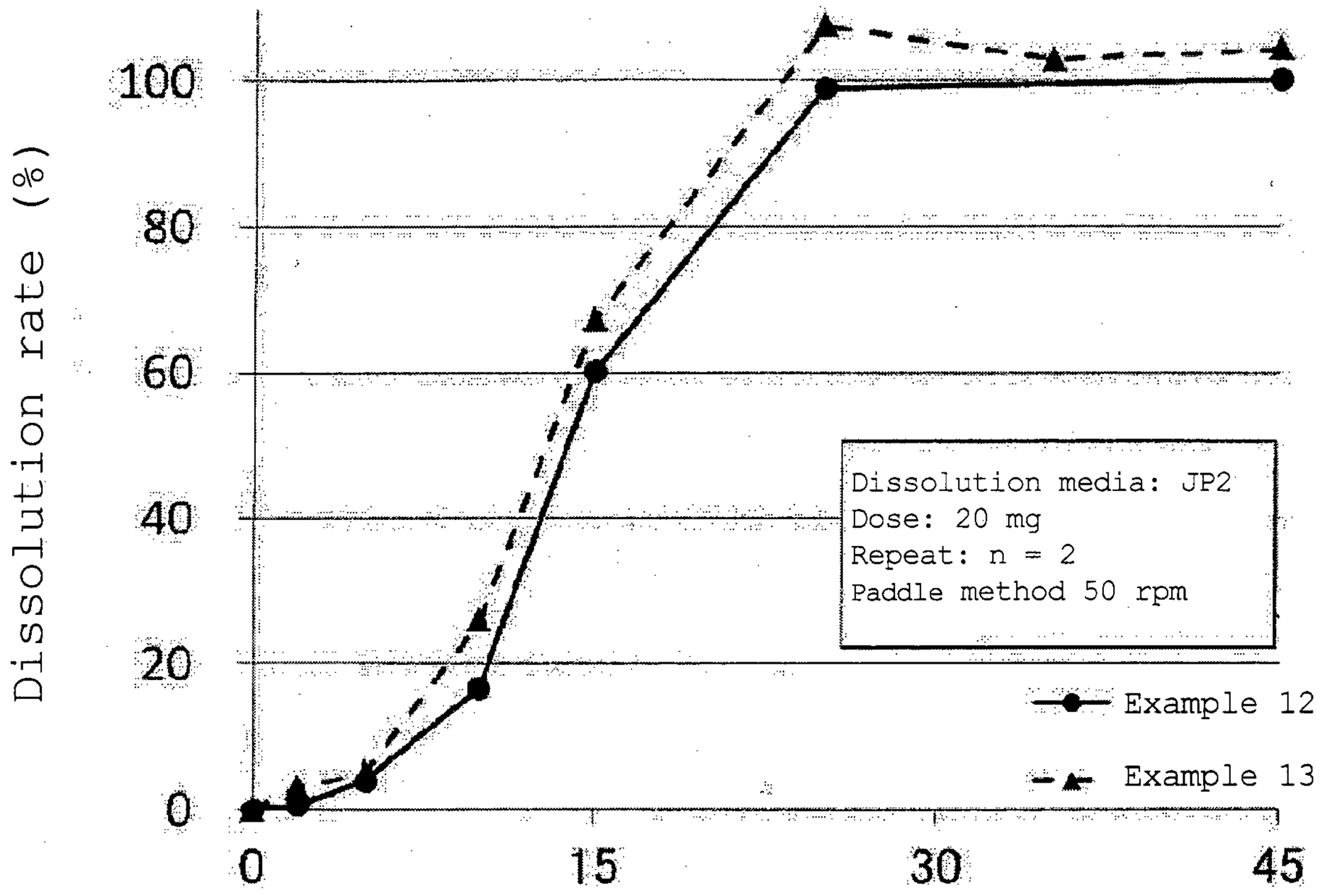

Dissolution rate (%)
100
80
60
40
20
0
0
15
30
45
Dissolution time (min)
Dissolution media: JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50 rpm
Example 12
Example 13

Fig. 10

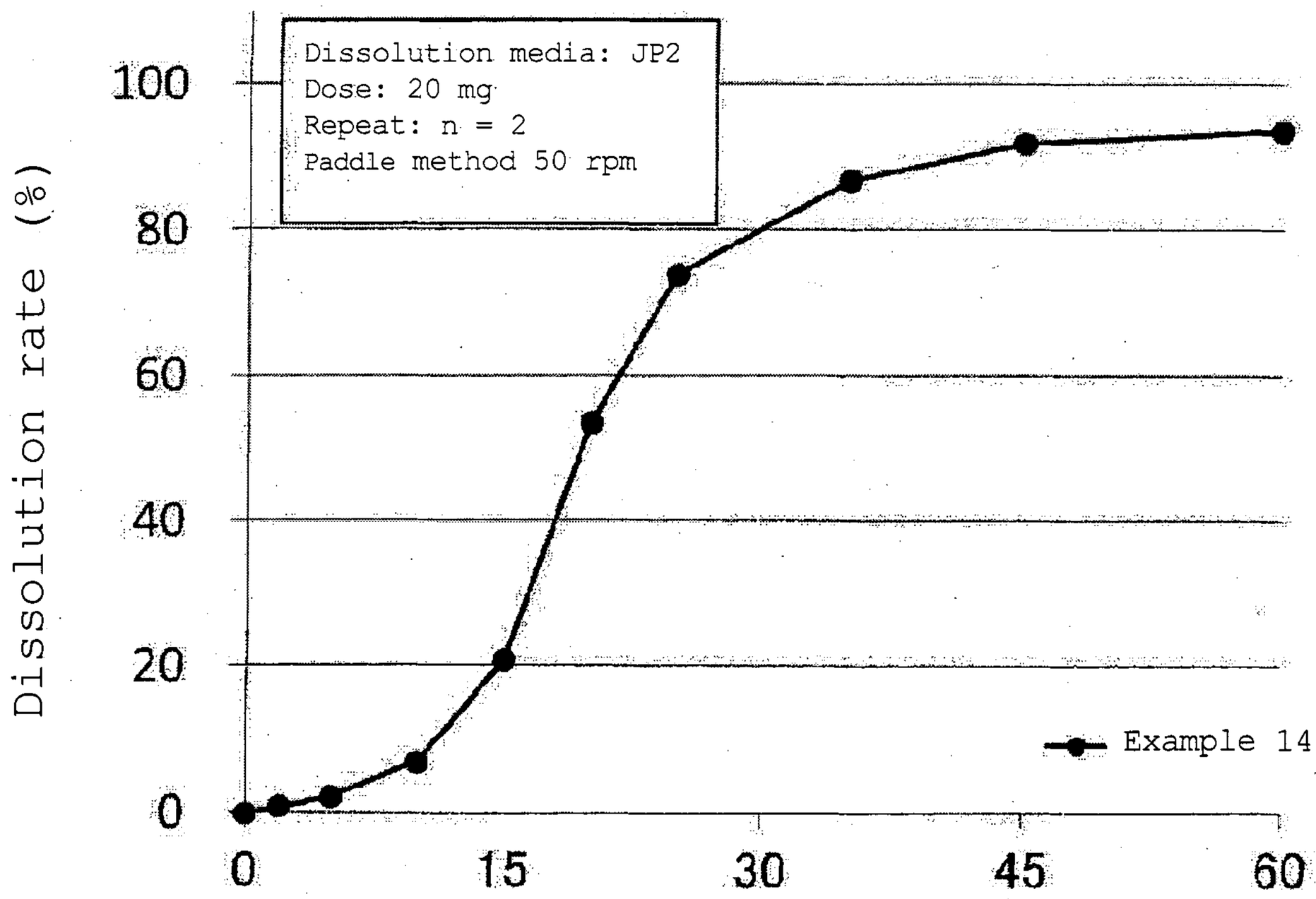

Dissolution media: JP2
Dose: 20 mg
Repeat: n = 2
Paddle method 50 rpm
Example 14
Dissolution rate (%)
0
20
40
60
80
100
0
15
30
45
60
Dissolution time (min)

Fig. 11

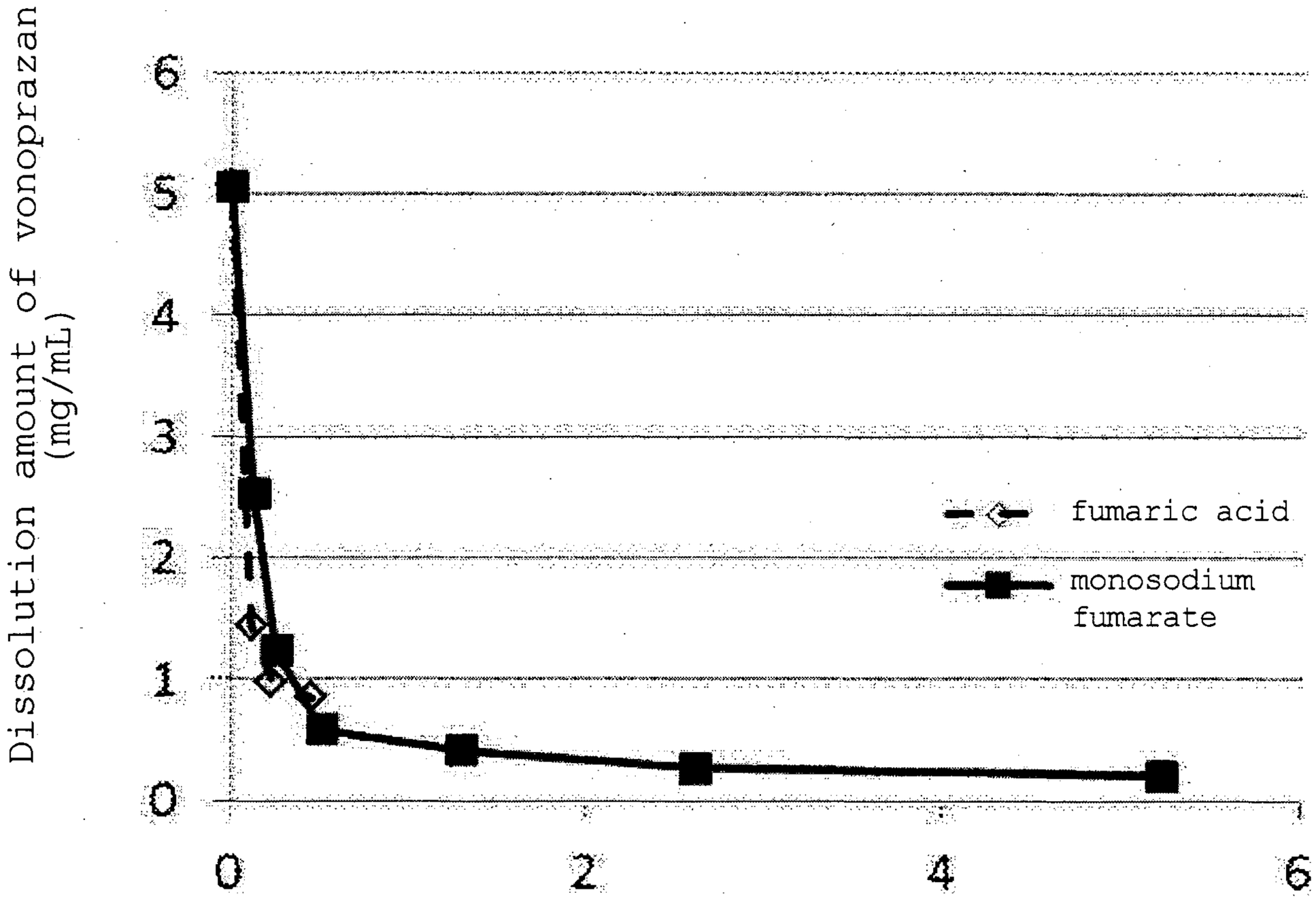

Dissolution amount of vonoprazan (mg/mL)
0
1
2
3
4
5
6
0
2
4
6
fumaric acid
monosodium fumarate
Concentration of fumaric acid or monosodium fumarate (%(W/W))

Fig. 12

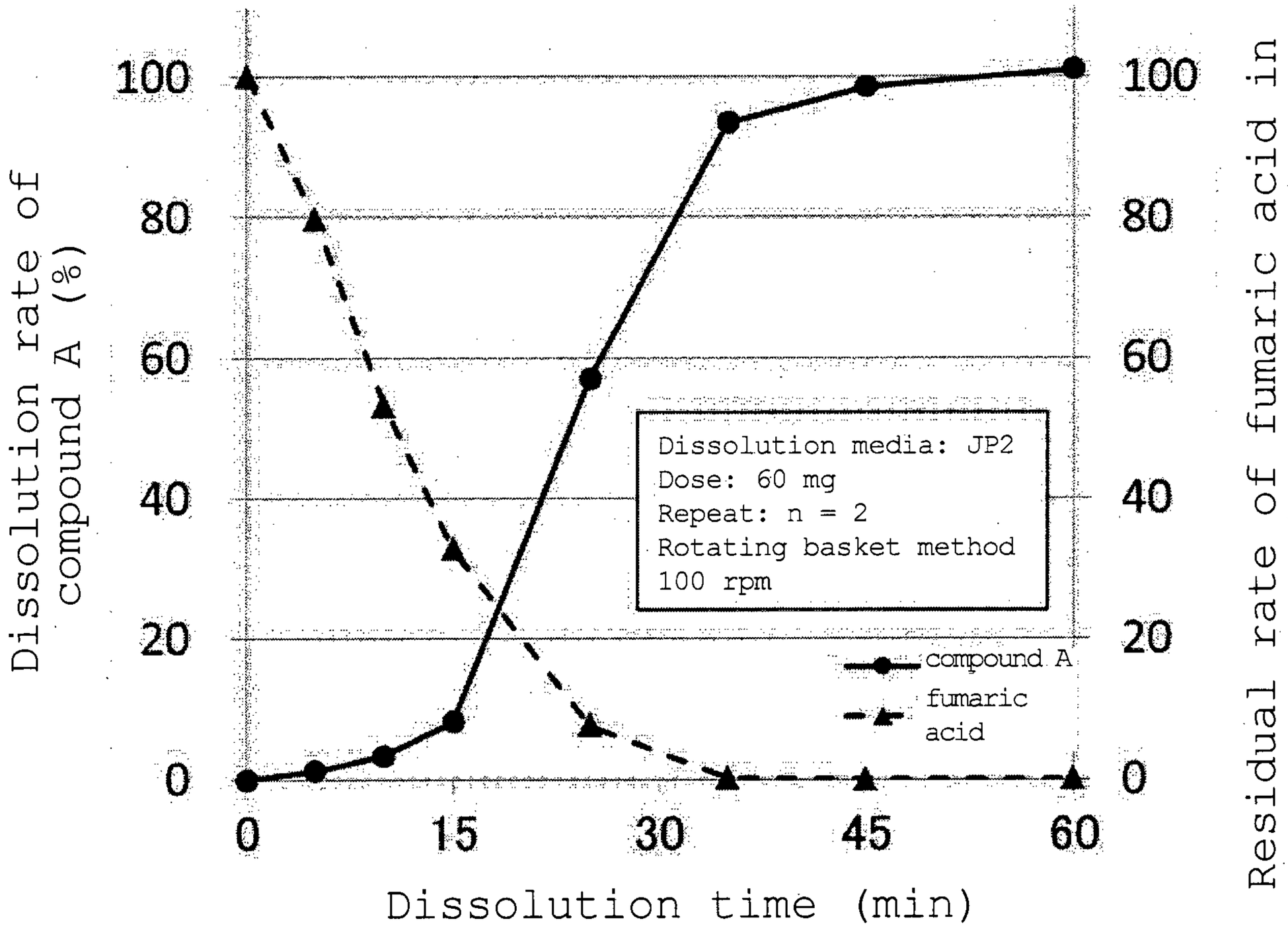

Dissolution rate of compound A (%)
Residual rate of fumaric acid in particles (%)
100
80
60
40
20
0
0
15
30
45
60
Dissolution time (min)
Dissolution media: JP2
Dose: 60 mg
Repeat: n = 2
Rotating basket method
100 rpm
compound A
fumaric acid

Fig. 13

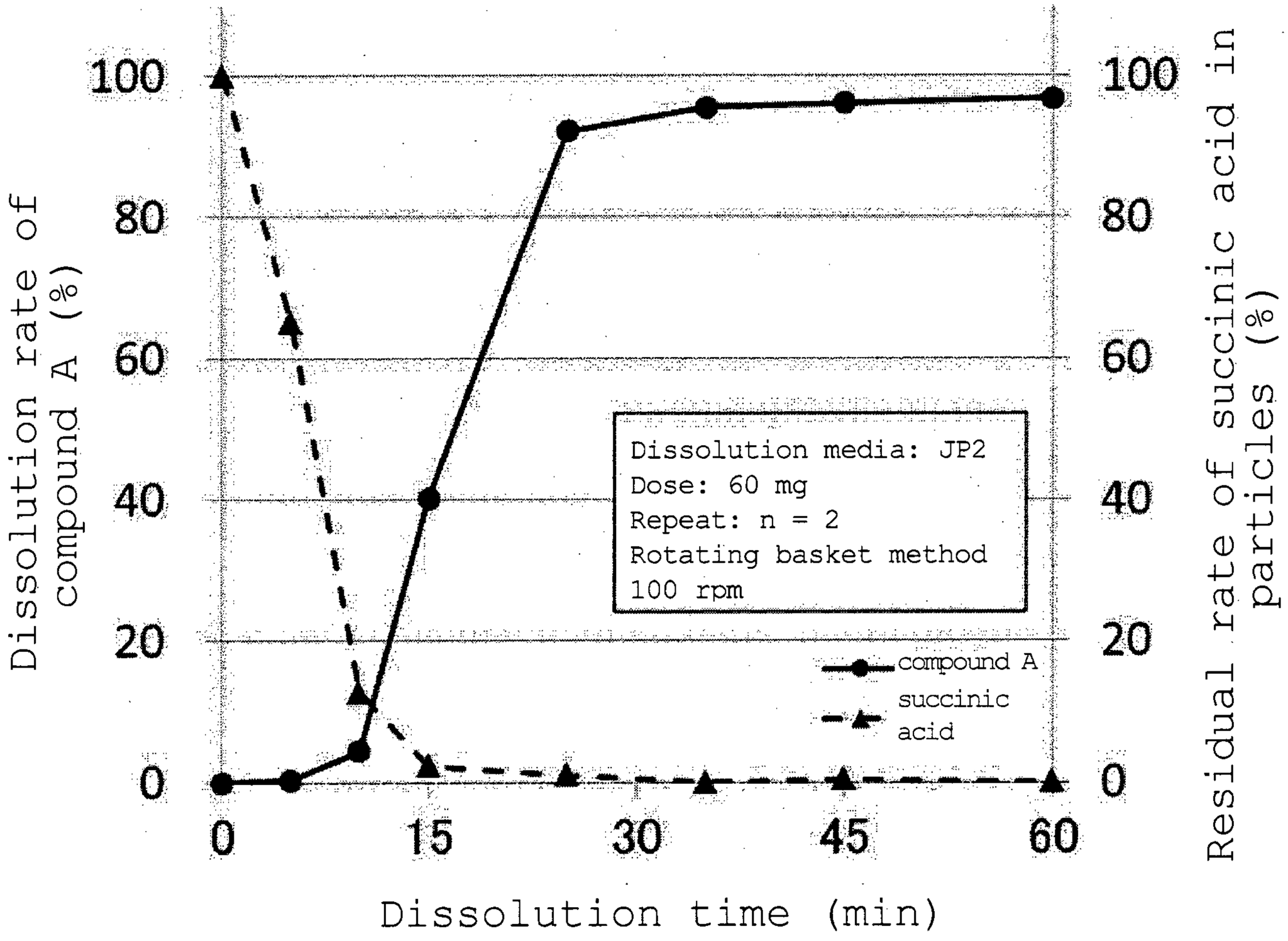

Dissolution rate of compound A (%)
Residual rate of succinic acid in particles (%)
Dissolution time (min)
0
20
40
60
80
100
0
15
30
45
60
Dissolution media: JP2
Dose: 60 mg
Repeat: n = 2
Rotating basket method
100 rpm
compound A
succinic acid

Fig. 14

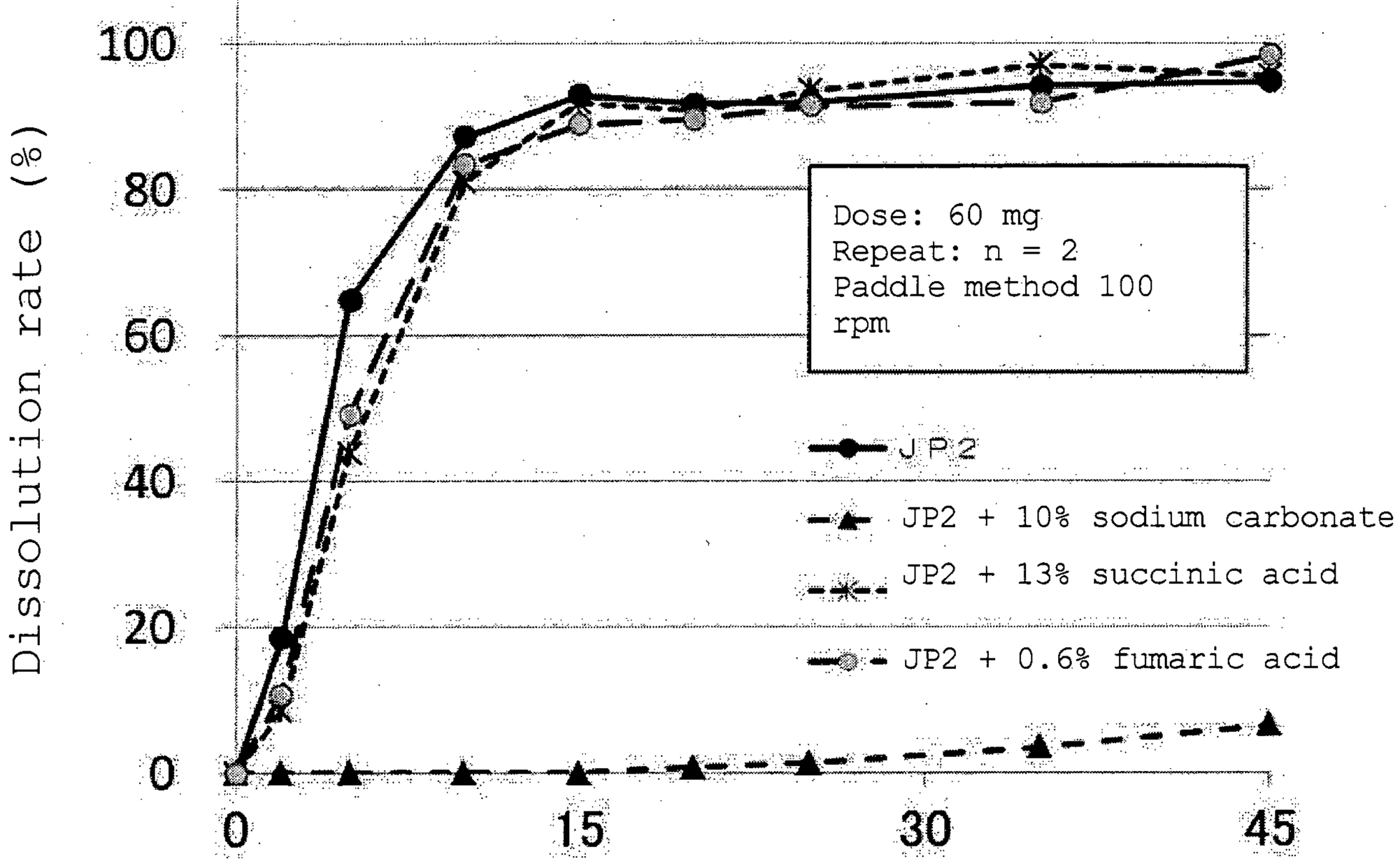

Dissolution rate (%)
100
80
60
40
20
0
0
15
30
45
Dissolution time (min)
Dose: 60 mg
Repeat: n = 2
Paddle method 100 rpm
JP2
JP2 + 10% sodium carbonate
JP2 + 13% succinic acid
JP2 + 0.6% fumaric acid

Fig. 15

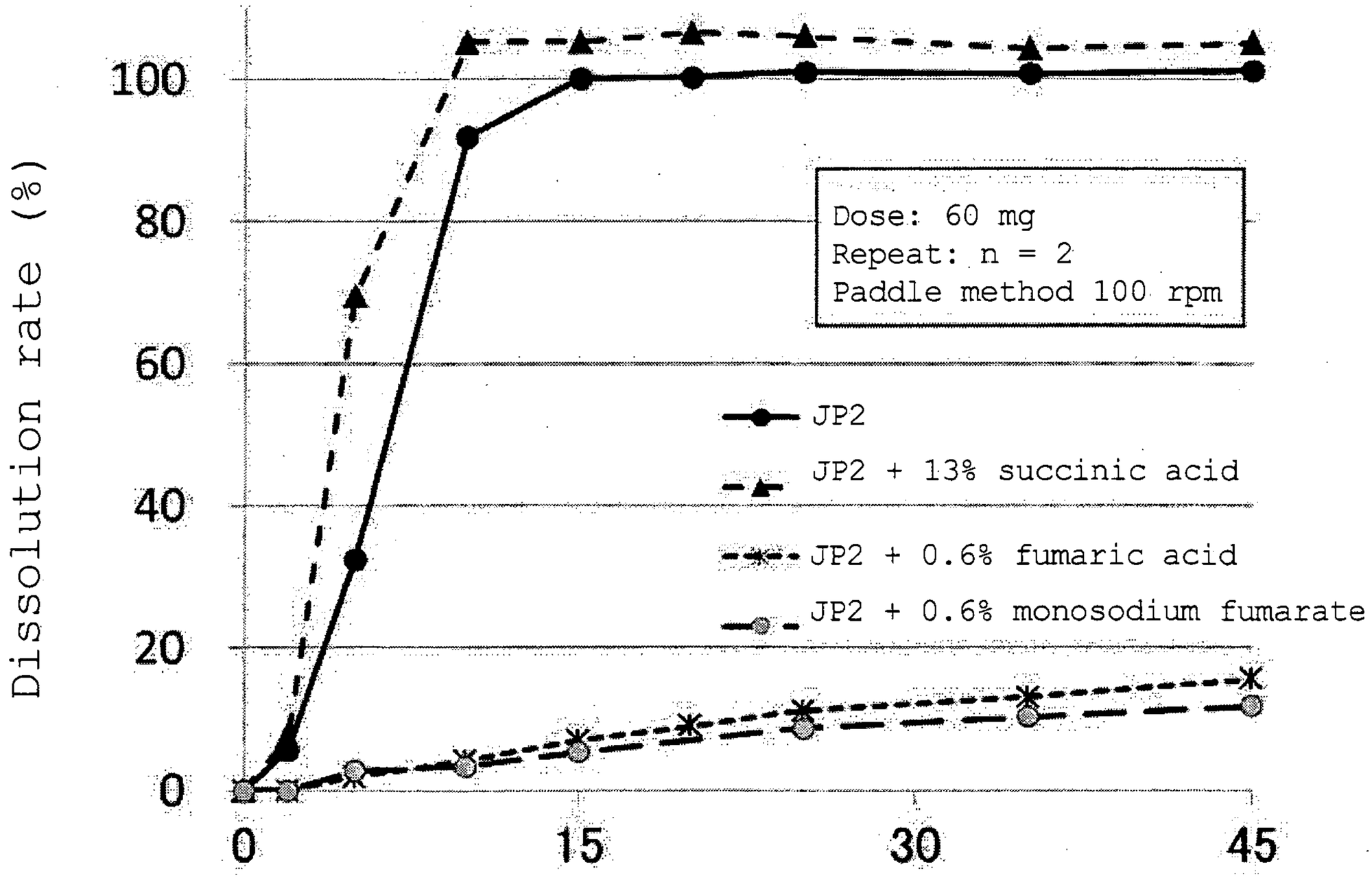
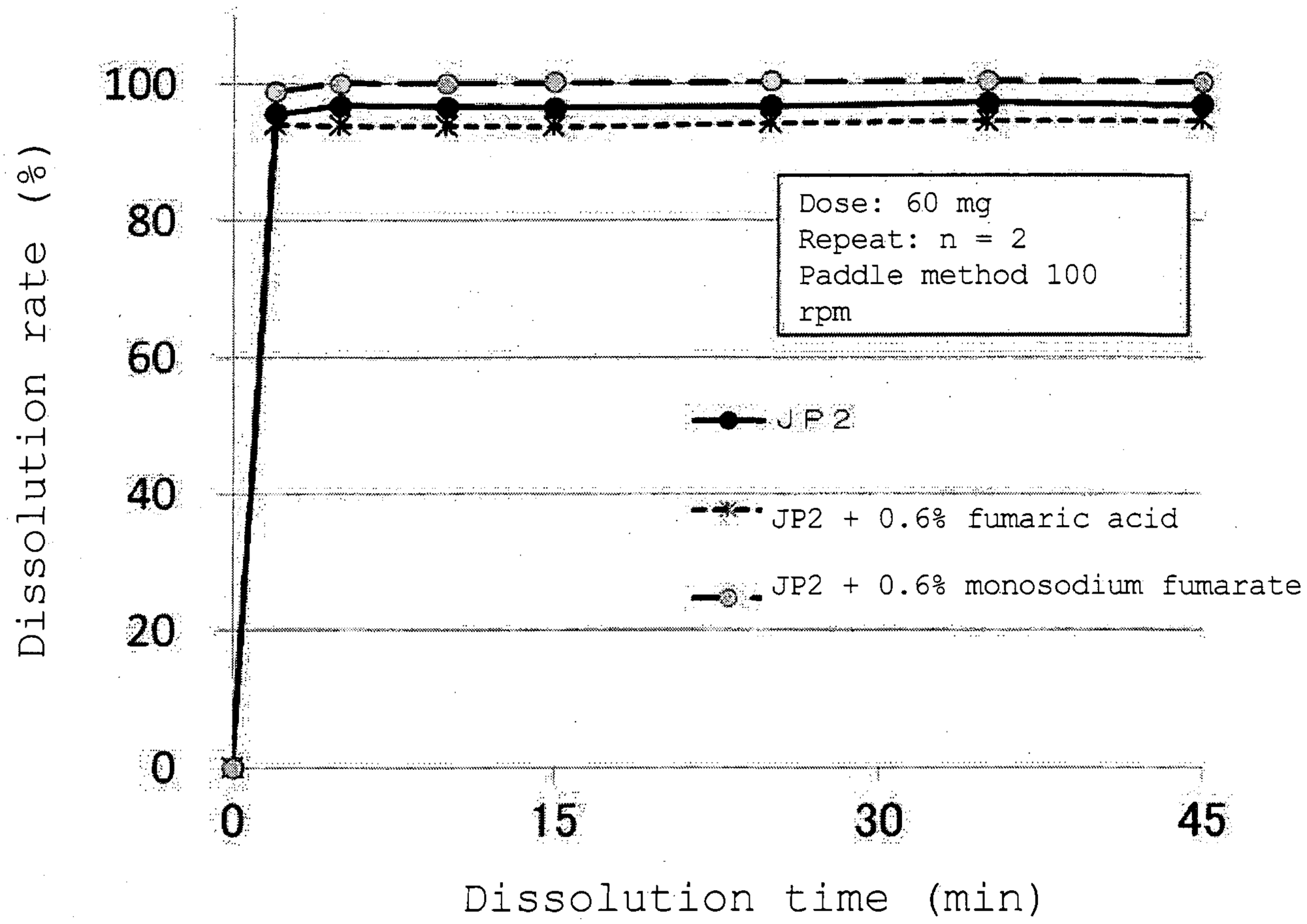

Dissolution rate (%)
100
80
60
40
20
0
0
15
30
45
Dissolution time (min)
Dose: 60 mg
Repeat: n = 2
Paddle method 100 rpm
JP2
JP2 + 13% succinic acid
JP2 + 0.6% fumaric acid
JP2 + 0.6% monosodium fumarate

Fig. 16


100
80
60
40
20
0
Dissolution rate (%)
0
15
30
45
Dissolution time (min)
Dose: 60 mg
Repeat: n = 2
Paddle method 100 rpm
JP2
JP2 + 0.6% fumaric acid
JP2 + 0.6% monosodium fumarate