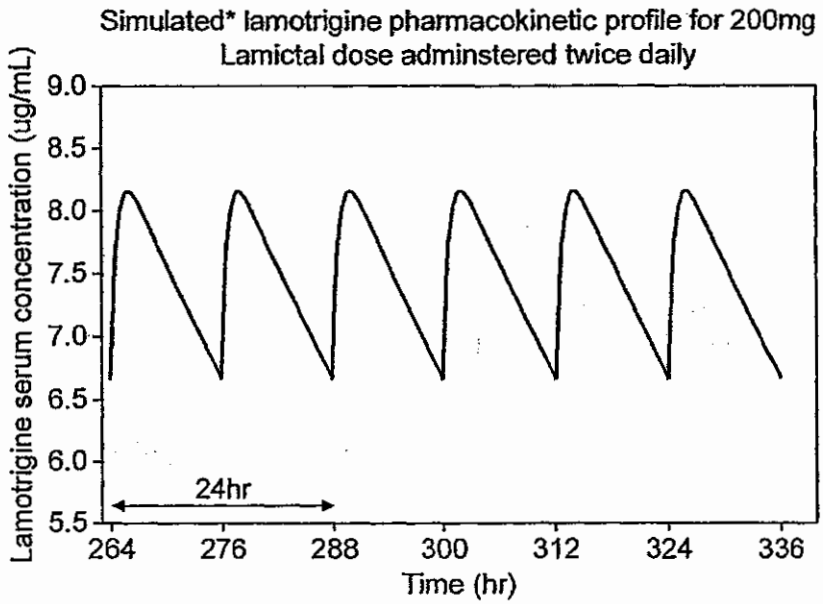
Simulated lamotrigine pharmacokinetic profile for 200mg lamotrigine (Lamictal™) dose administered twice daily



*Simulated profile over a 12hr interval agrees closely with that observed in healthy volunteers

FIG. 1

Dissolution profile of three different batches of lamotrigine (Lamictal™) 150mg tablets

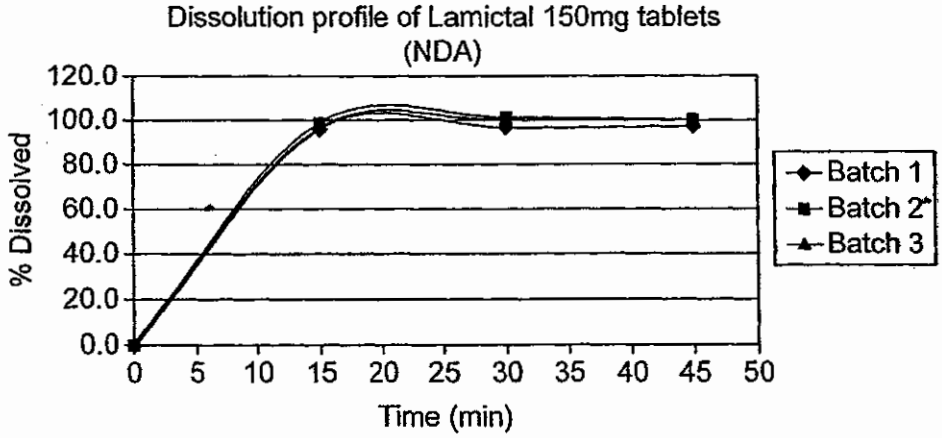
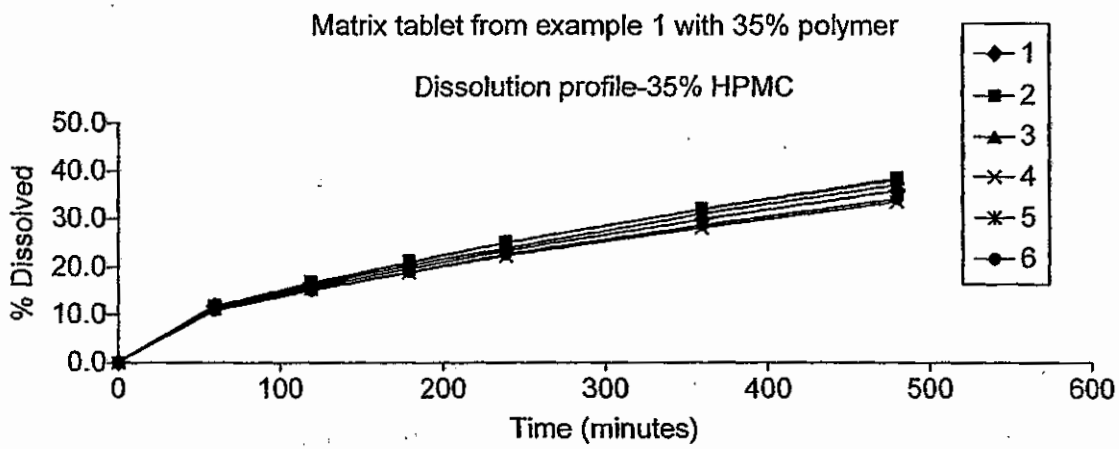
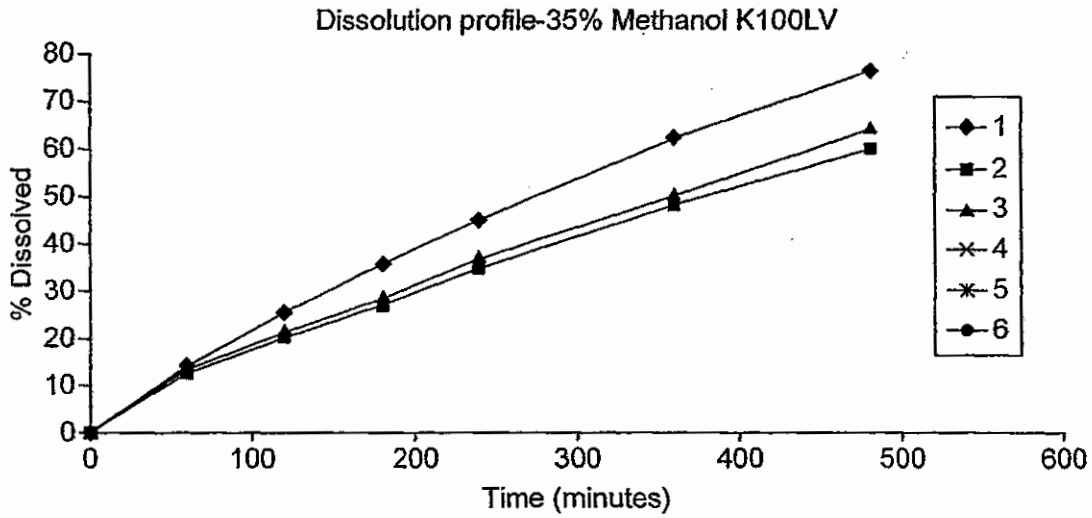


FIG. 2


Matrix tablet from example 1 with 35% polymer
Dissolution profile-35% HPMC
% Dissolved
50.0
40.0
30.0
20.0
10.0
0.0
0
100
200
300
400
500
600
Time (minutes)
1
2
3
4
5
6


Dissolution profile-35% Methanol K100LV
% Dissolved
80
70
60
50
40
30
20
10
0
0
100
200
300
400
500
600
Time (minutes)
1
2
3
4
5
6

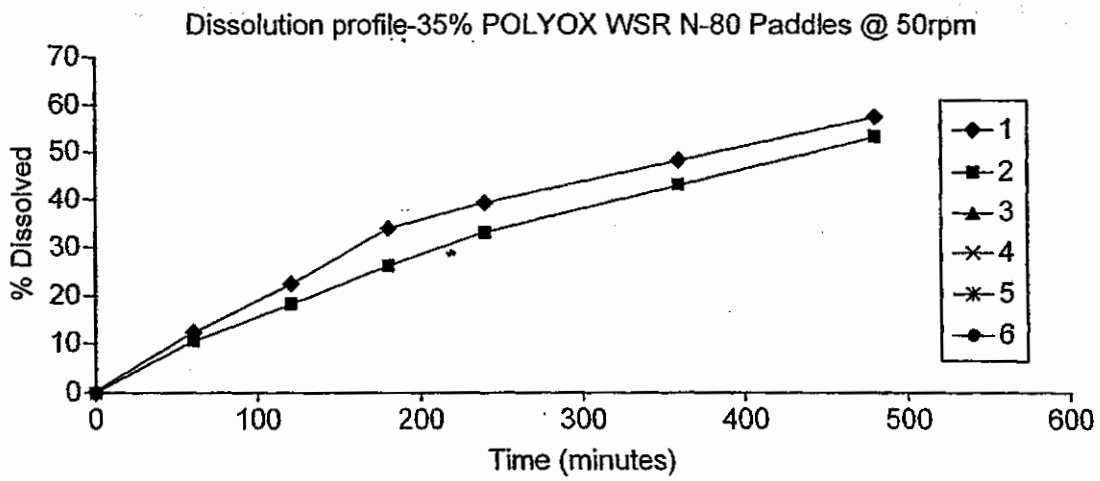

Dissolution profile-35% POLYOX WSR N-80 Paddles @ 50rpm
% Dissolved
70
60
50
40
30
20
10
0
0
100
200
300
400
500
600
Time (minutes)
1
2
3
4
5
6

FIG. 3a

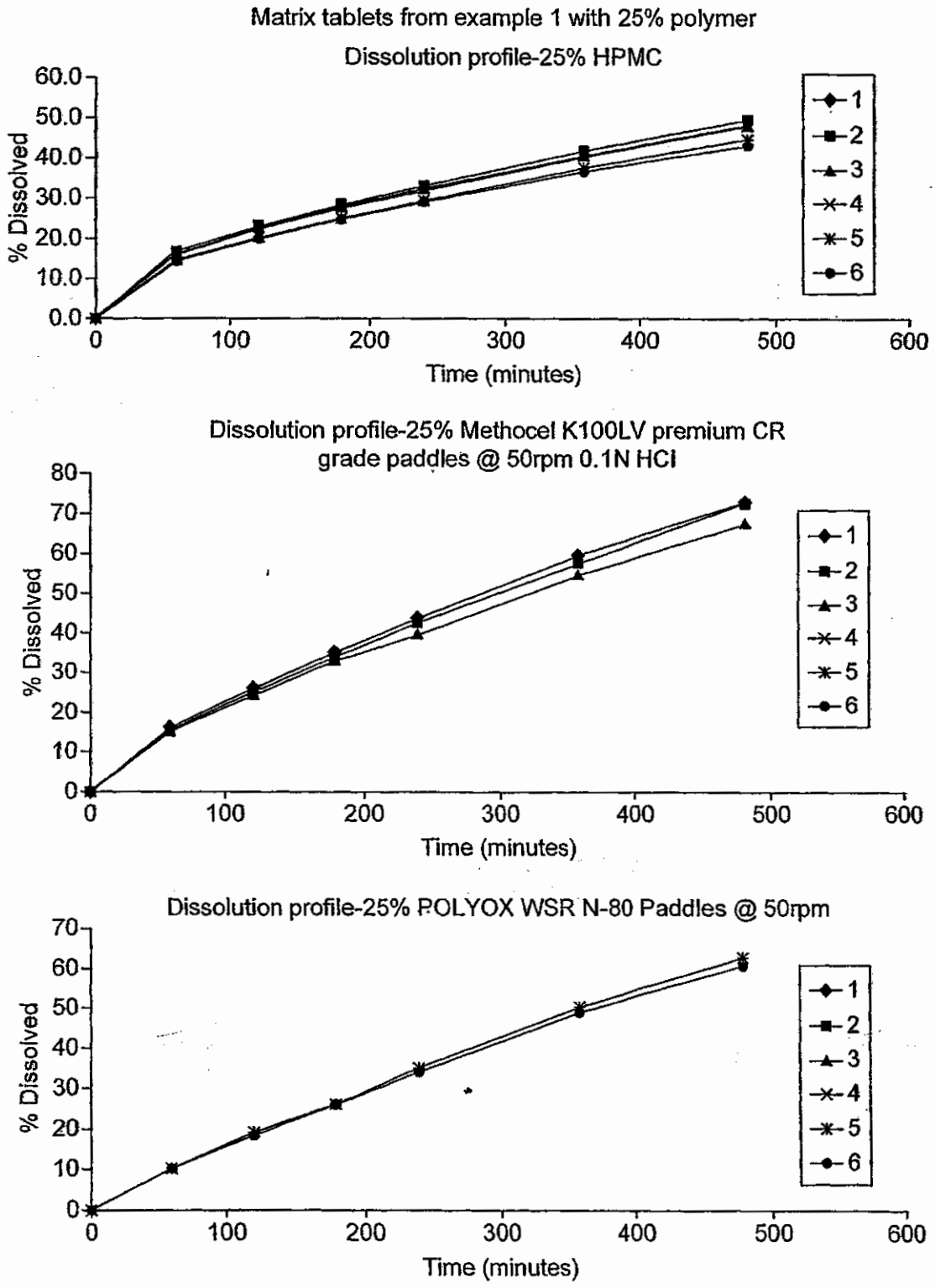
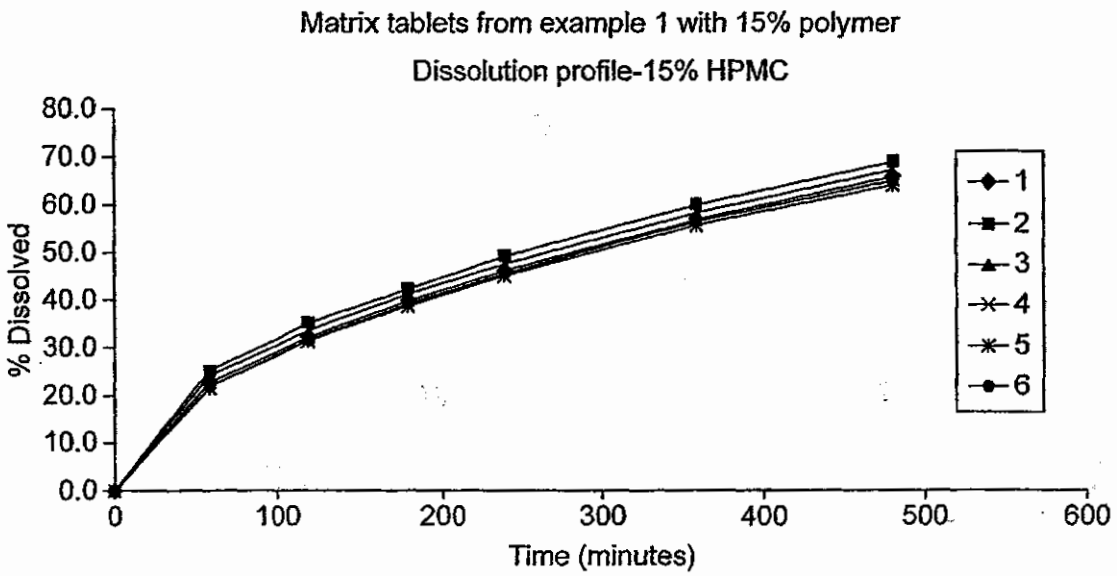

Matrix tablets from example 1 with 25% polymer
Dissolution profile-25% HPMC
% Dissolved
Time (minutes)
1
2
3
4
5
6
Dissolution profile-25% Methocel K100LV premium CR grade paddles @ 50rpm 0.1N HCl
% Dissolved
Time (minutes)
Dissolution profile-25% POLYOX WSR N-80 Paddles @ 50rpm
% Dissolved
Time (minutes)

FIG. 3b


Matrix tablets from example 1 with 15% polymer
Dissolution profile-15% HPMC
% Dissolved
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
100
200
300
400
500
600
Time (minutes)
1
2
3
4
5
6

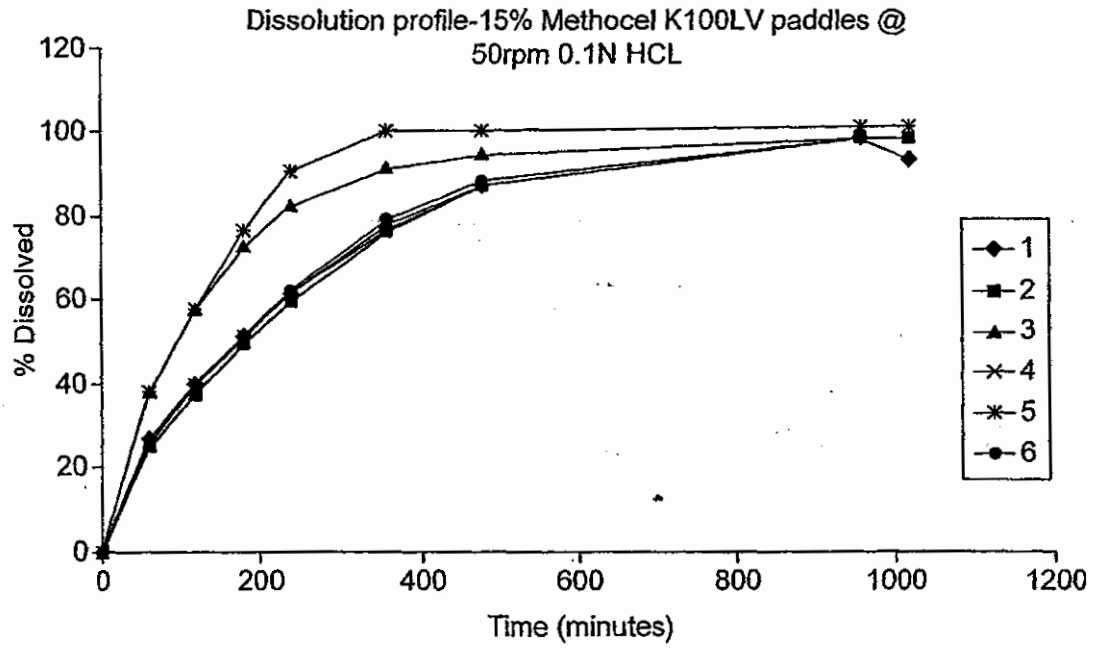

Dissolution profile-15% Methocel K100LV paddles @
50rpm 0.1N HCL
% Dissolved
120
100
80
60
40
20
0
0
200
400
600
800
1000
1200
Time (minutes)
1
2
3
4
5
6

FIG. 3c

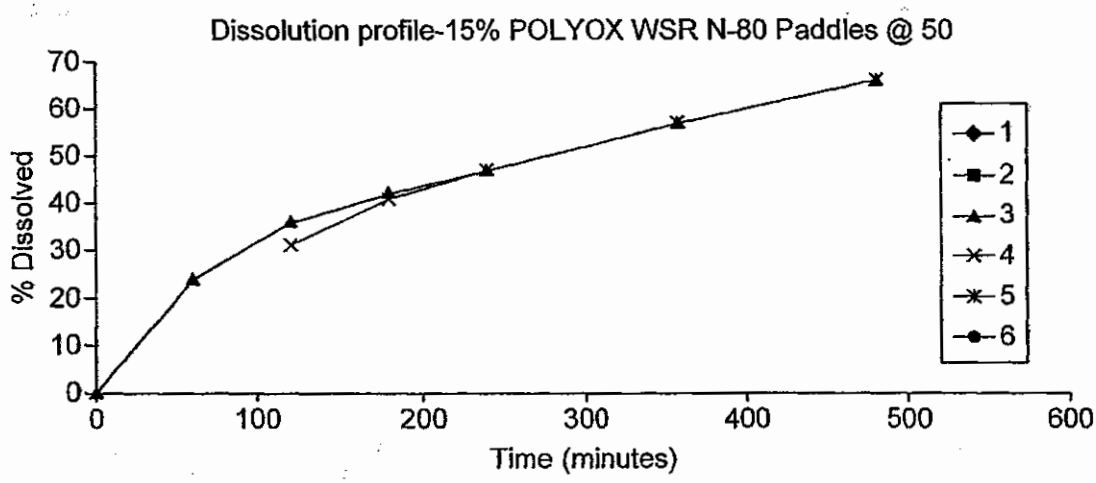
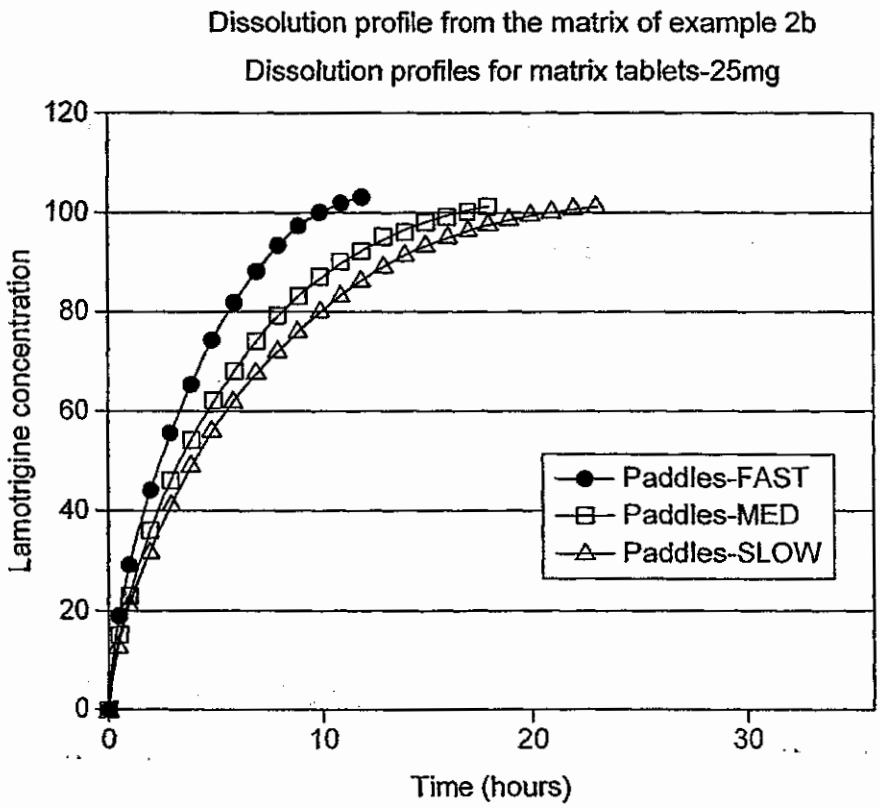
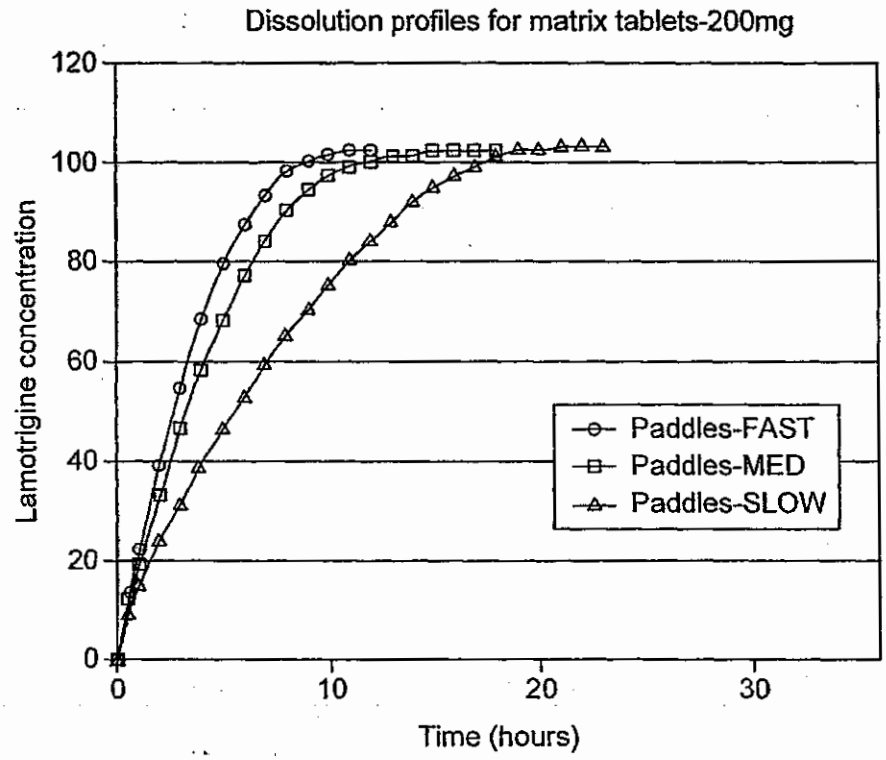

Dissolution profile-15% POLYOX WSR N-80 Paddles @ 50
% Dissolved
70
60
50
40
30
20
10
0
0
100
200
300
400
500
600
Time (minutes)
1
2
3
4
5
6

FIG. 3C CONT'D



"Paddles" indicates the dissolution method, fast/medium/slow indicate the release rates as set out in the table in example 2b

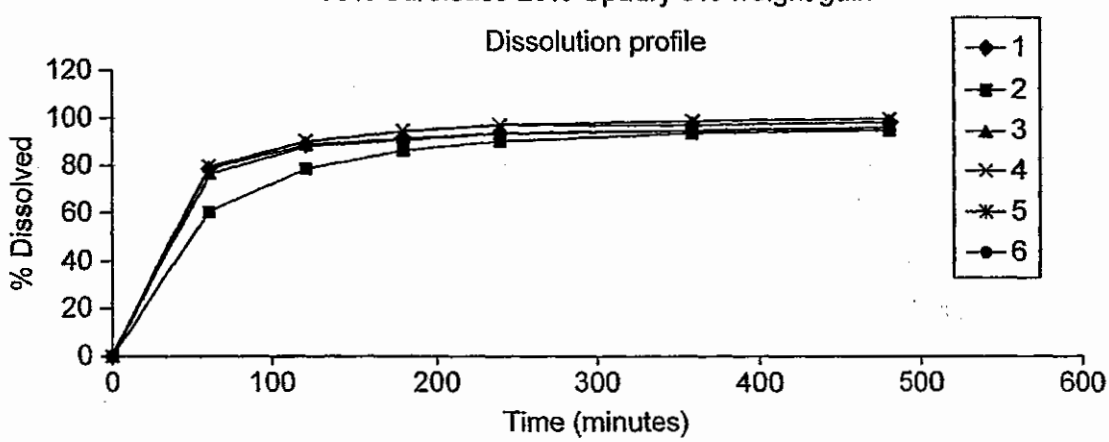
FIG. 4



"Paddles" indicates the dissolution method, fast/medium/slow indicate the release rates as set out in the table in example 2b

FIG. 4 CONT'D

Dissolution profile for tablets with 3% and 5% weight gain with a 80% Surelease, 20% Opadry coating



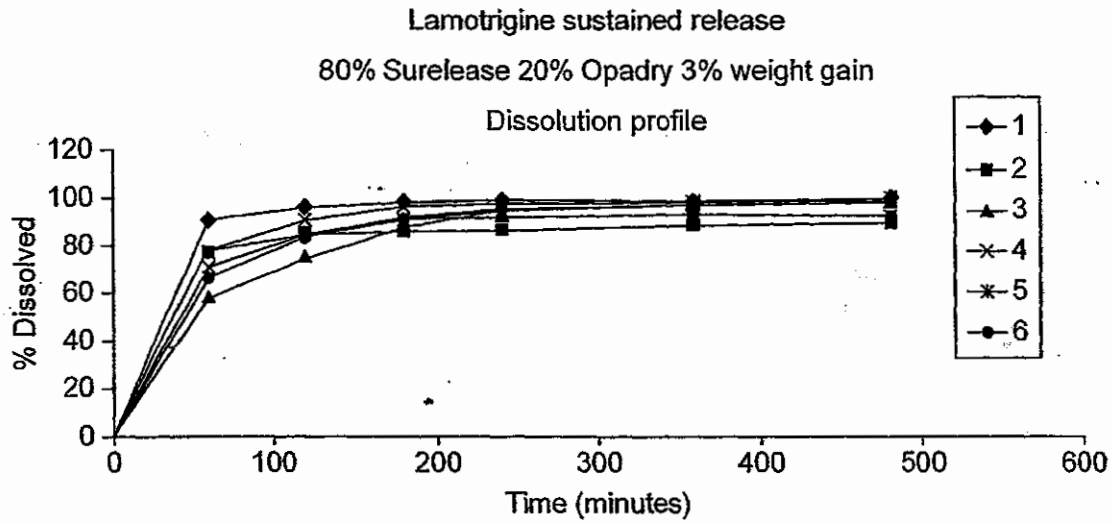


FIG. 5

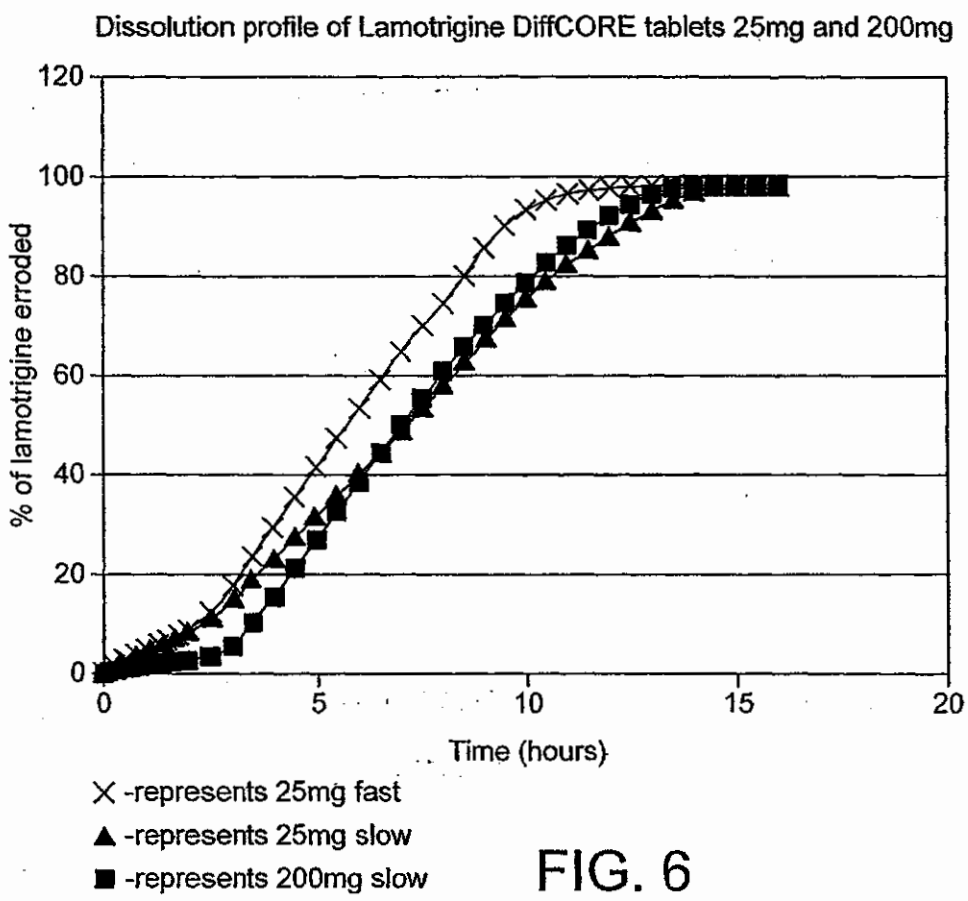
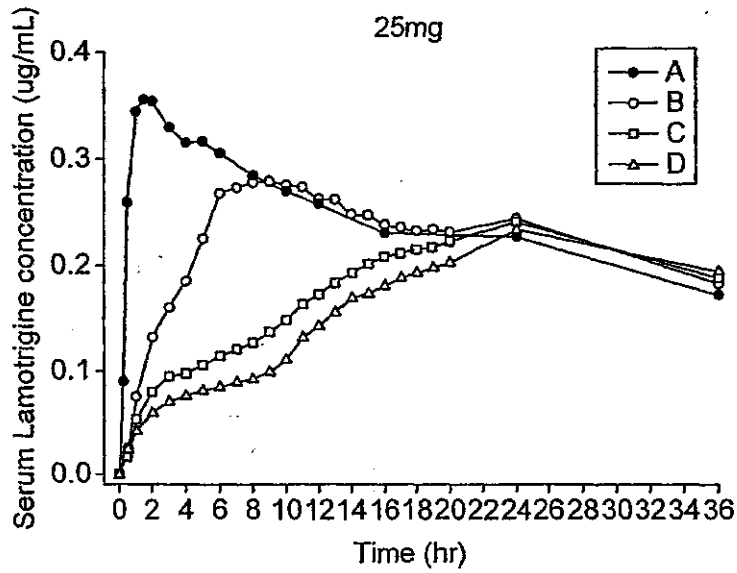
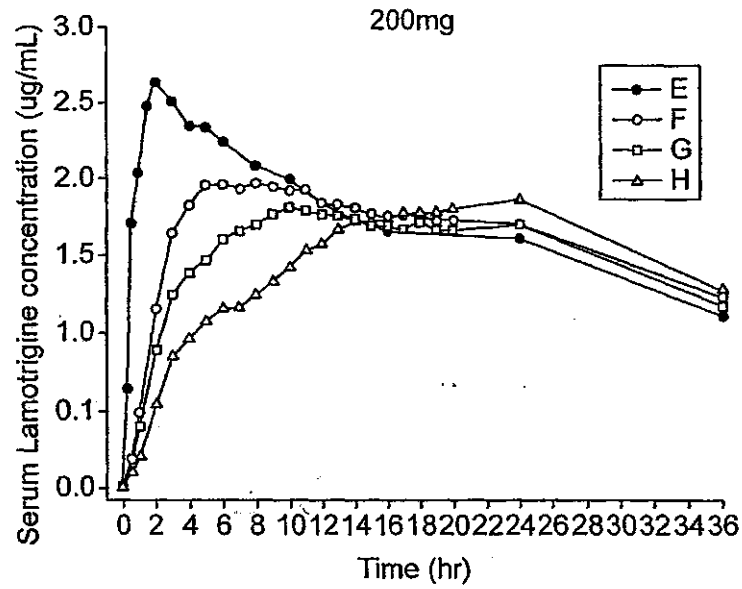

Dissolution profile of Lamotrigine DiffCORE tablets 25mg and 200mg
% of lamotrigine erroded
120
100
80
60
40
20
0
0
5
10
15
20
Time (hours)
X -represents 25mg fast
▲ -represents 25mg slow
■ -represents 200mg slow

FIG. 6

Serum Lamotrigine concentration over a 0-36 hour period for 25mg and 200mg matrix tablets of lamotrigine (example 2) compared with the standard commercially available instant release (IR) tablets





A	LAMICTAL IR 25mg	E	LAMICTAL IR 200mg
B	LAMICTAL 25mg matrix tablet-fast release-6 hour	F	LAMICTAL 200mg matrix tablet-fast release-6 hour release rate
C	LAMICTAL 25mg matrix tablet-medium release rate-12 hour release rate	G	LAMICTAL 200mg matrix tablet-medium release rate-12 hour release rate
D	LAMICTAL 25mg matrix tablet-slow release rate-16 hour release rate	H	LAMICTAL 200mg matrix tablet-slow release rate-16 hour release rate

FIG. 7