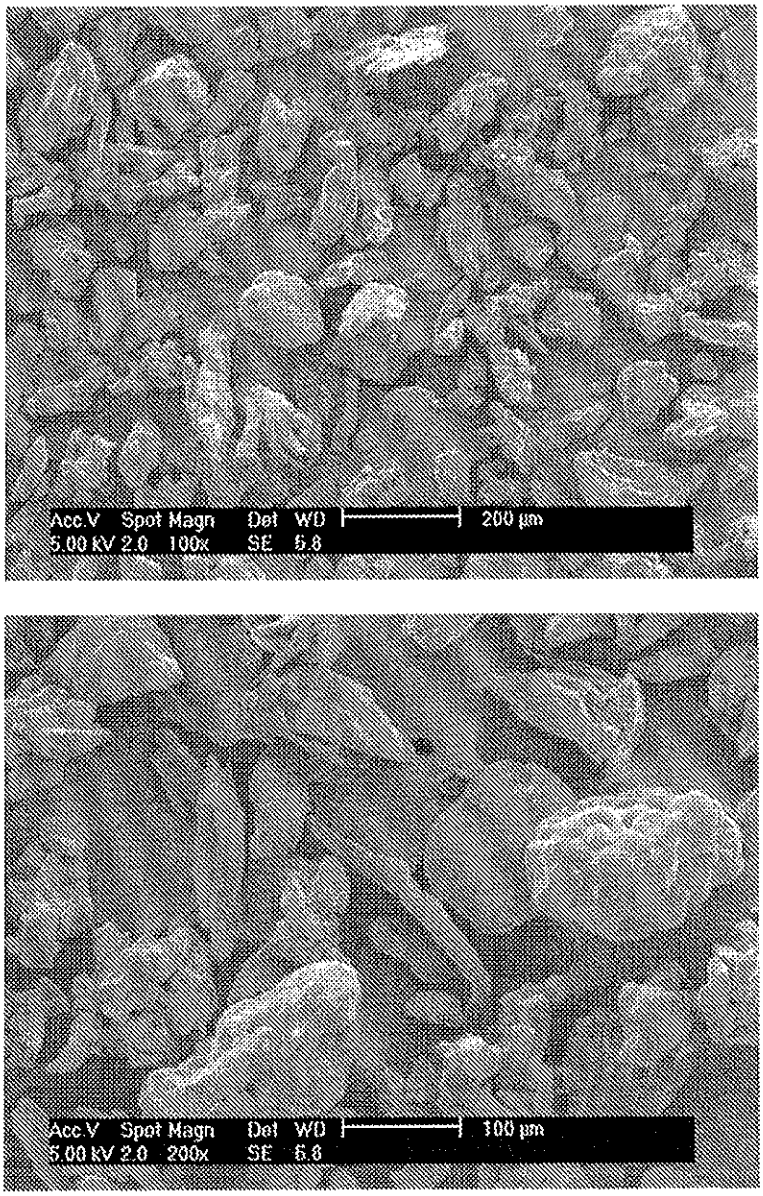
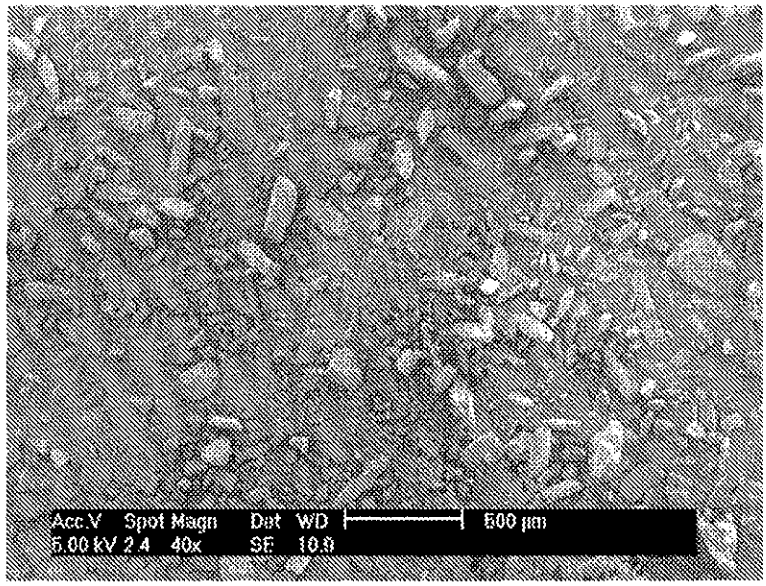

Acc.V Spot Magn Det WD 200 µm
5.00 kV 2.0 100x SE 6.8
Acc.V Spot Magn Det WD 100 µm
5.00 kV 2.0 200x SE 6.8

Figure 1


Acc.V Spot Magn Det WD 500 µm
5.00 kV 2.4 40x SE 10.8

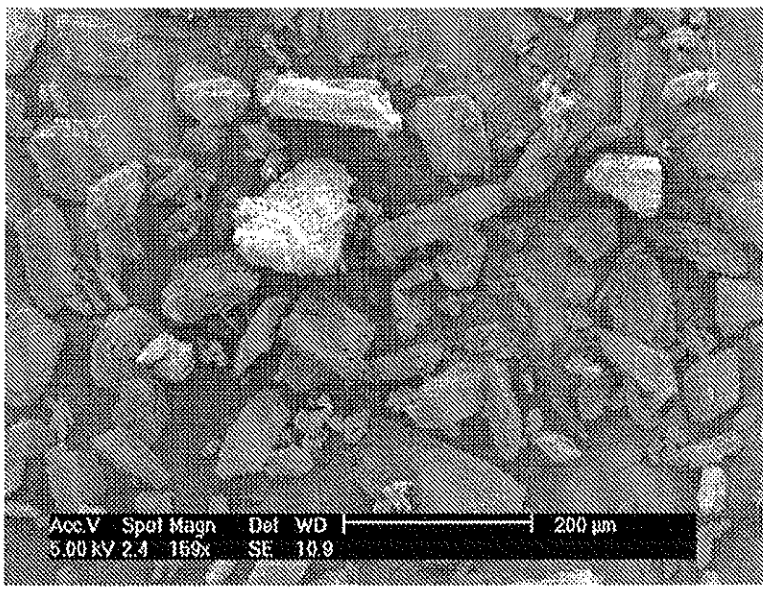
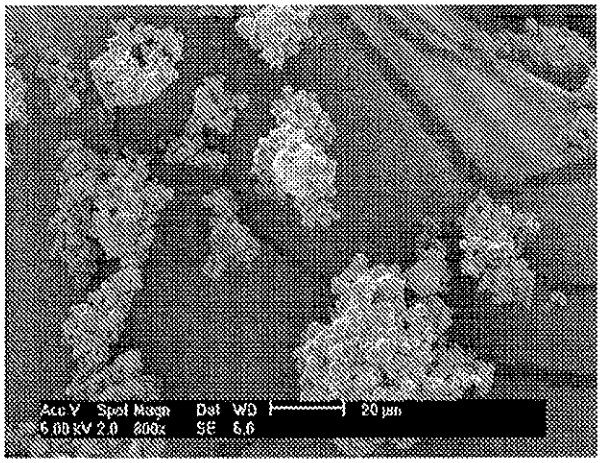
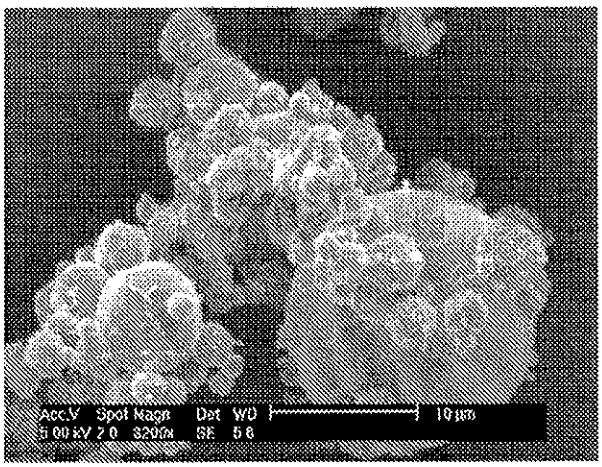

Acc.V Spot Magn Det WD 200 µm
5.00 kV 2.4 159x SE 10.9

Figure 2


Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 800x SE 5.6


Acc.V Spot Magn Det WD 10 µm
5.00 kV 2.0 1600x SE 5.6

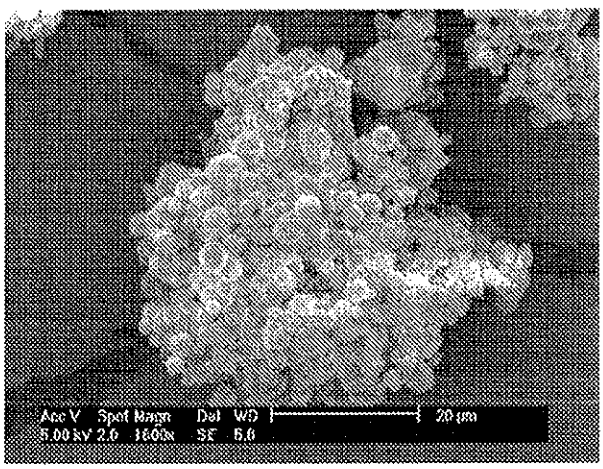
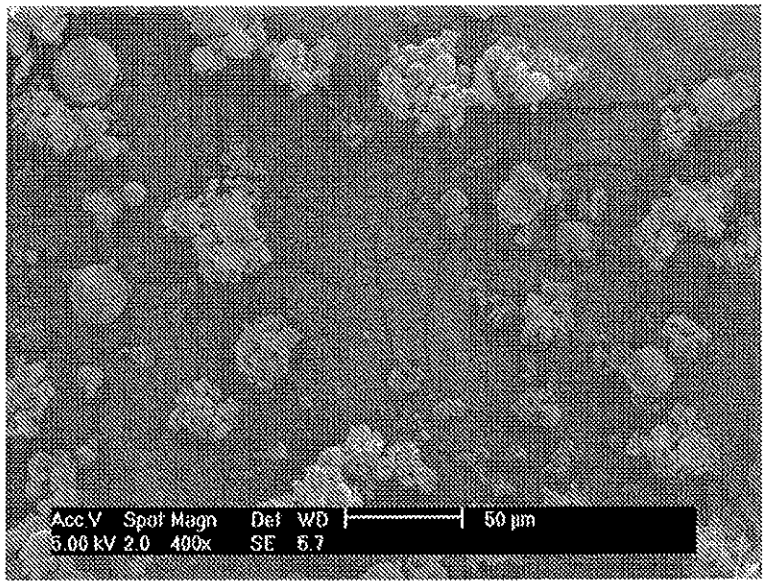

Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 1600x SE 5.6

Figure 3


Acc.V Spot Magn Det WD 50 µm
5.00 kV 2.0 400x SE 5.7

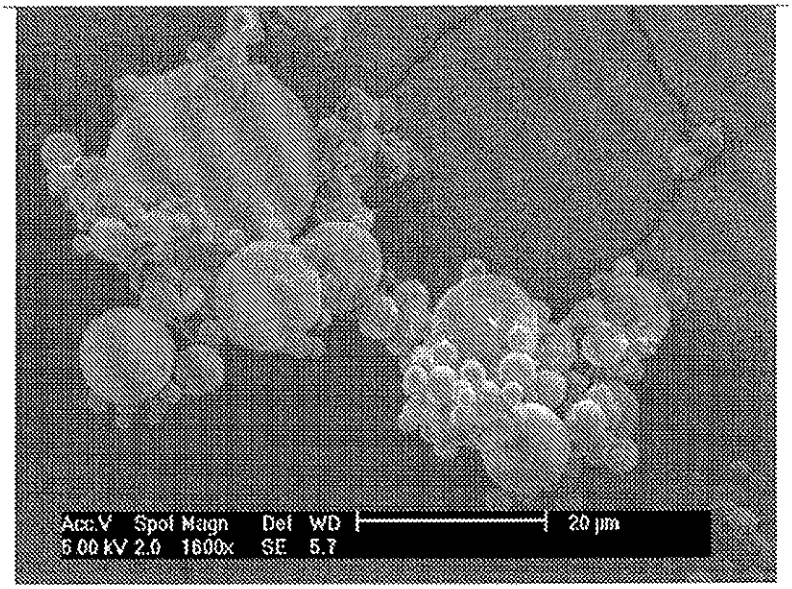

Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 1600x SE 5.7

Figure 4

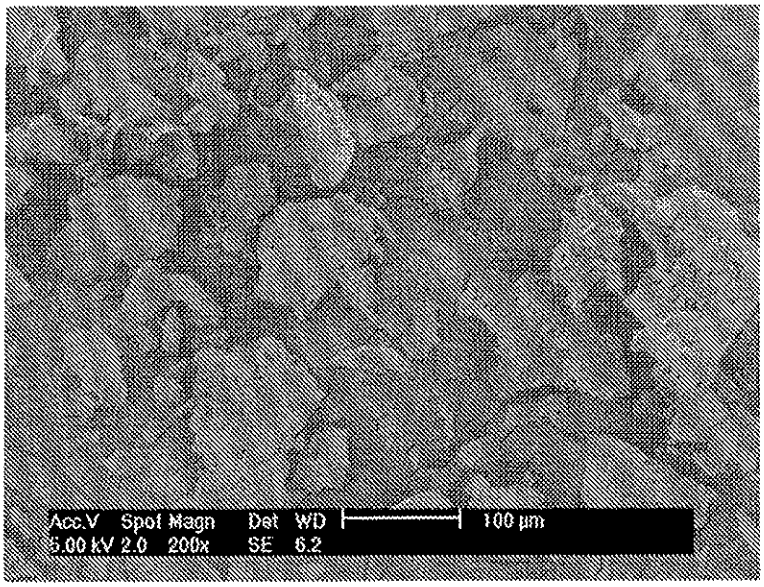
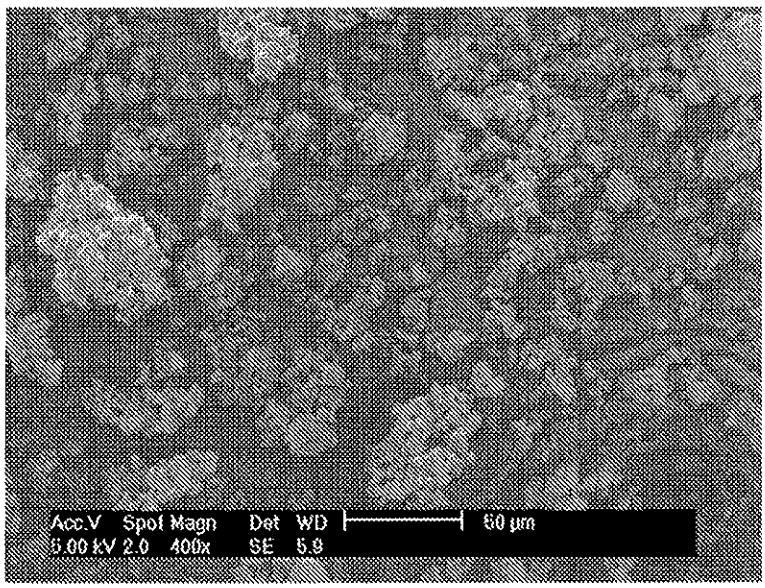


Figure 5


Acc.V Spot Magn Det WD 60 µm
5.00 kV 2.0 400x SE 5.9

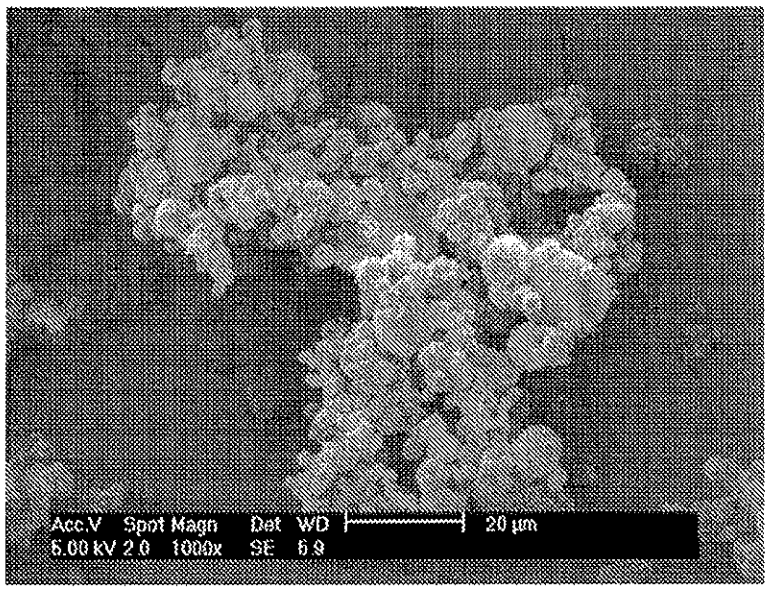
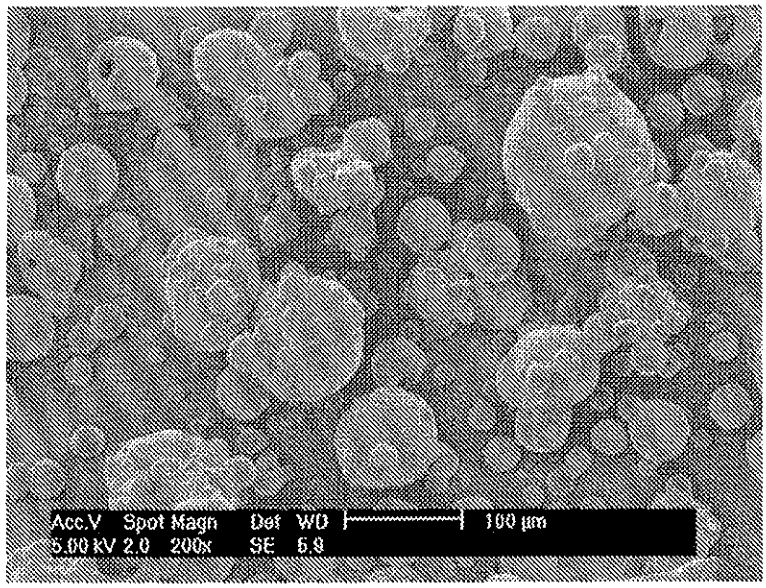

Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 1000x SE 6.9

Figure 6


Acc.V Spot Magn Det WD 100 µm
5.00 kV 2.0 200x SE 5.9

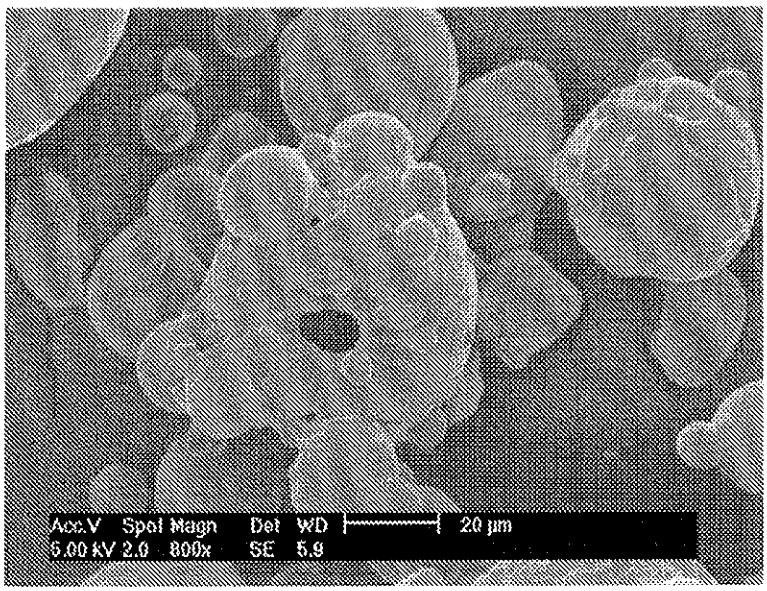

Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 800x SE 5.9

Figure 7

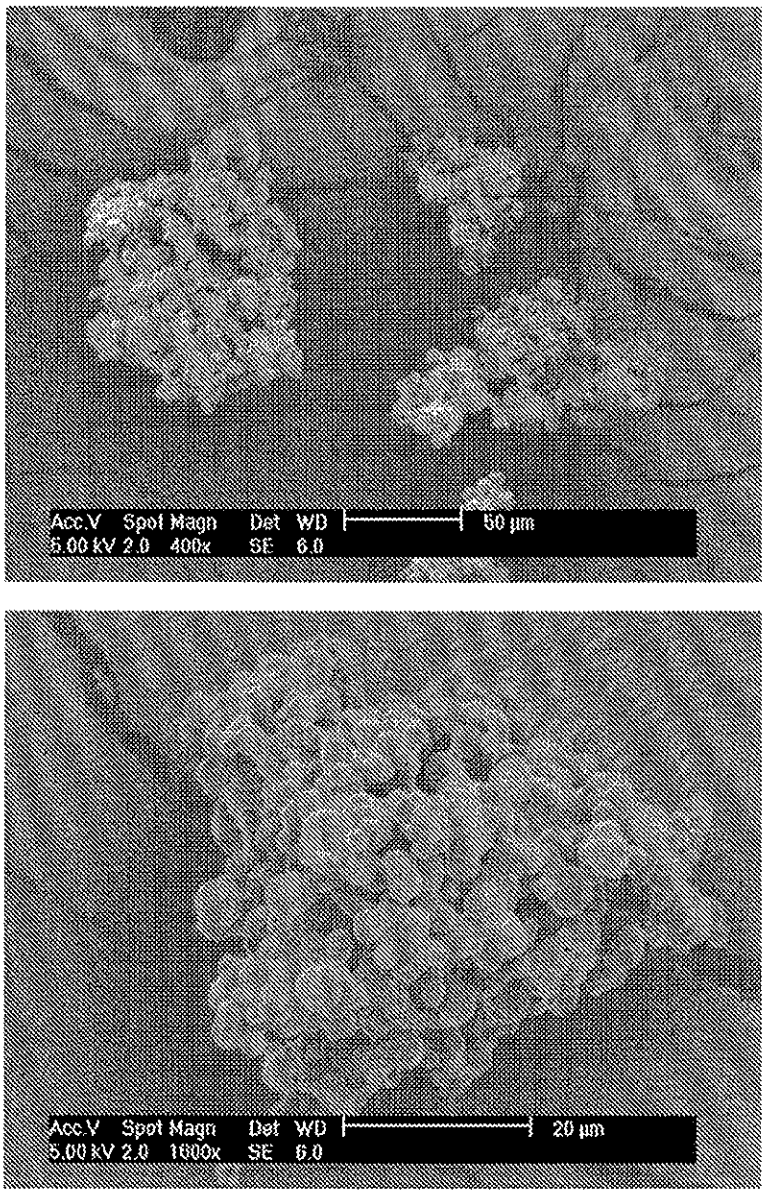

Acc.V Spot Magn Det WD 50 µm
5.00 kV 2.0 400x SE 6.0
Acc.V Spot Magn Det WD 20 µm
5.00 kV 2.0 1600x SE 6.0

Figure 8

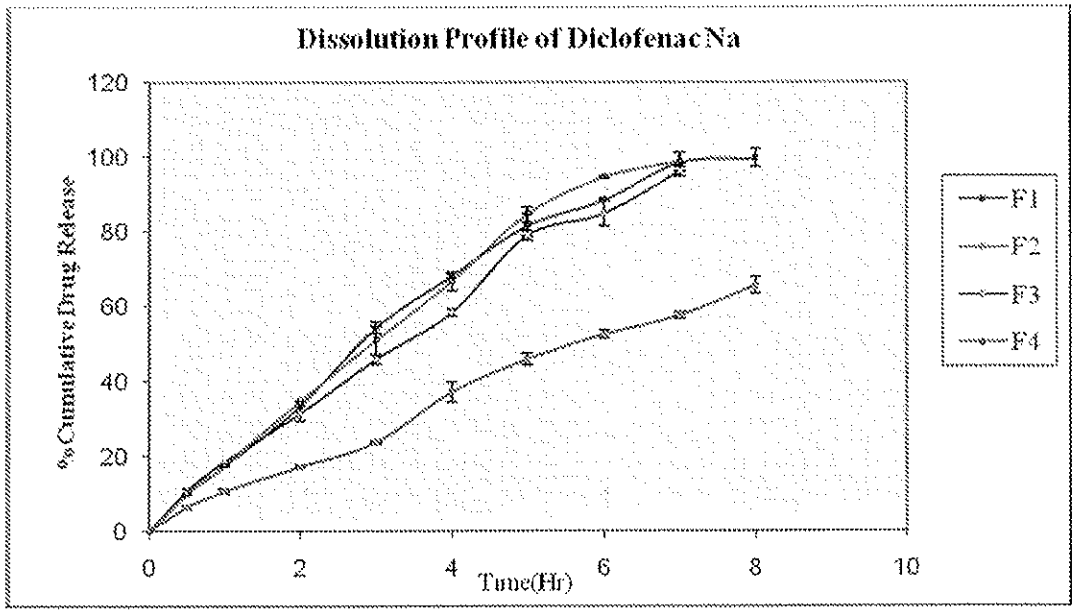


Figure 9

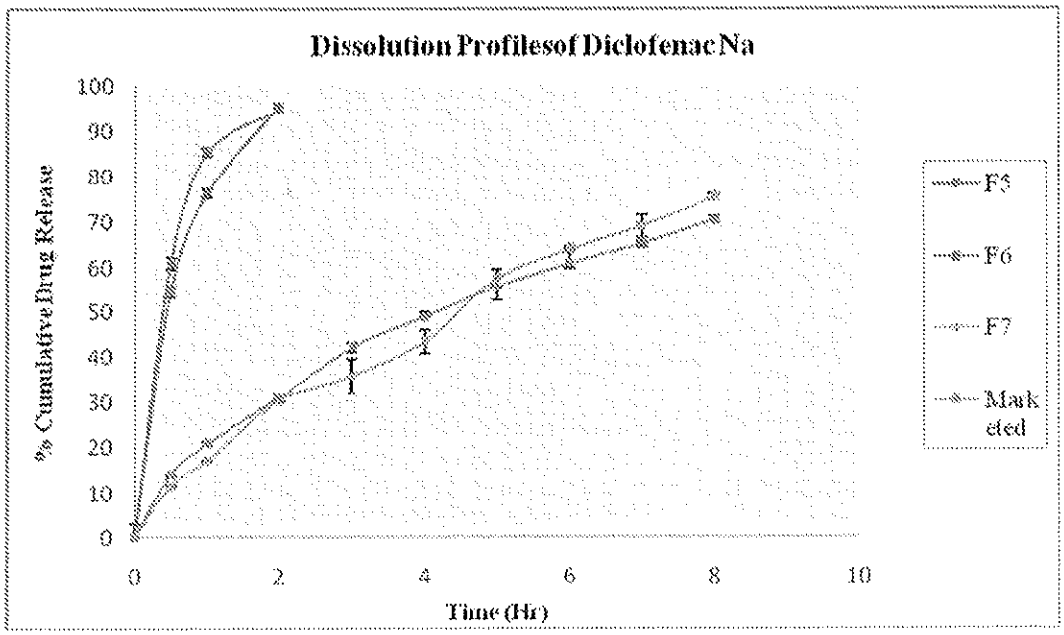


Figure 10

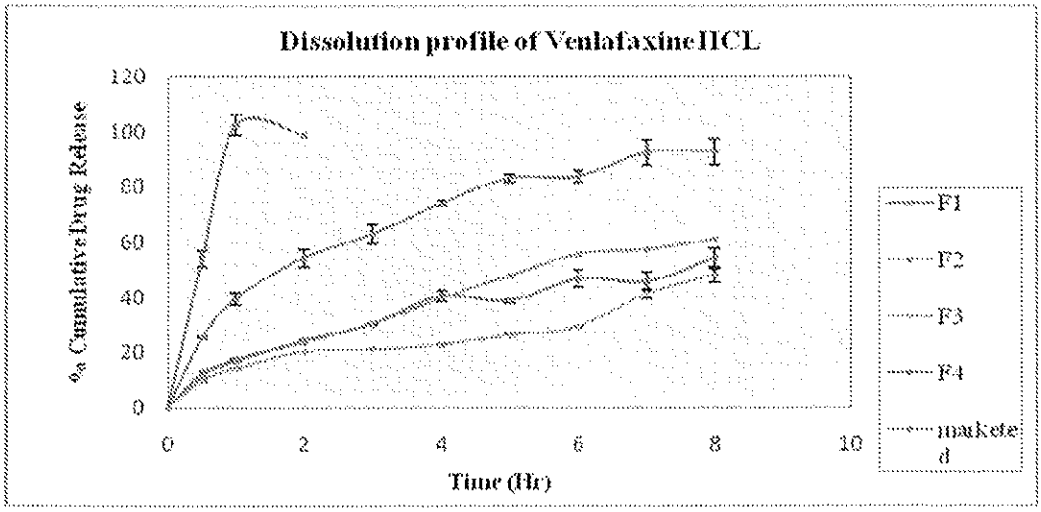


Figure 11

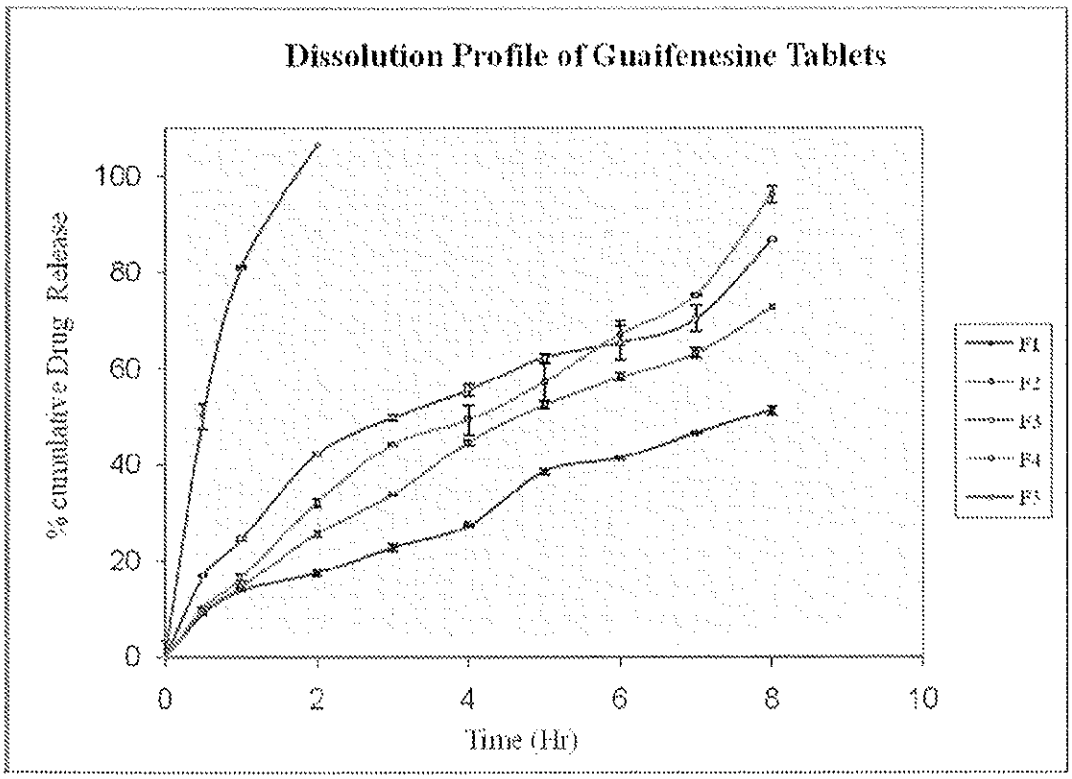


Figure 12

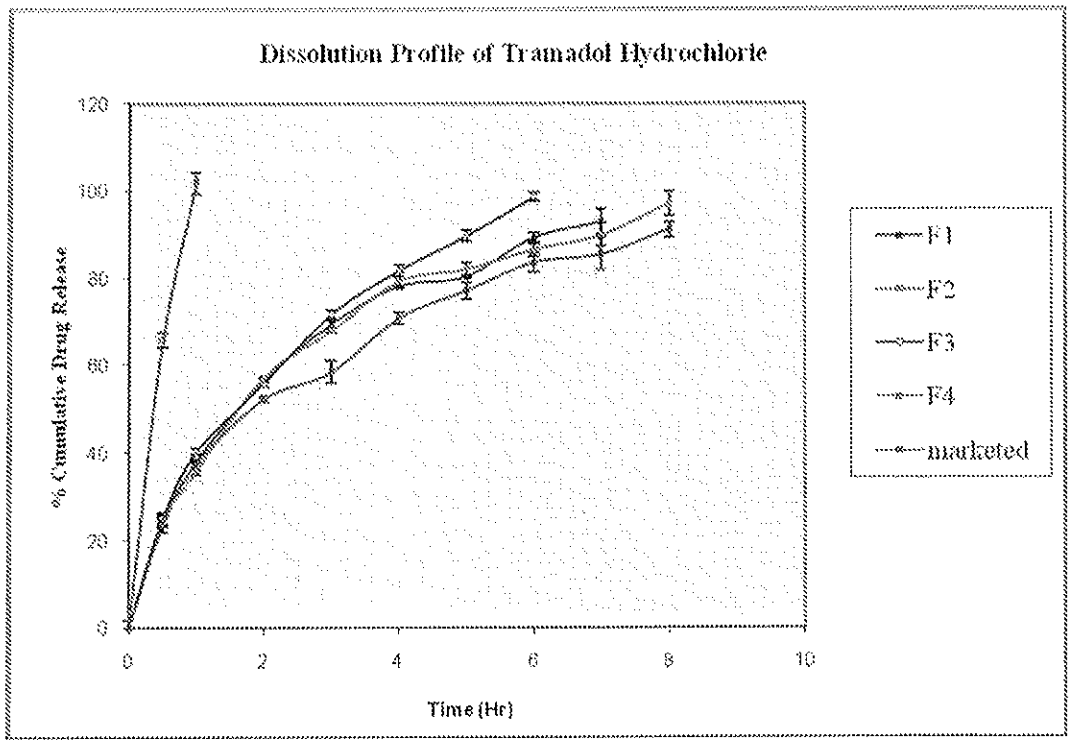

Dissolution Profile of Tramadol Hydrochlorie
% Cumulative Drug Release
120
100
80
60
40
20
0
0
2
4
6
8
10
Time (Hr)
F1
F2
F3
F4
marketed

Figure 13

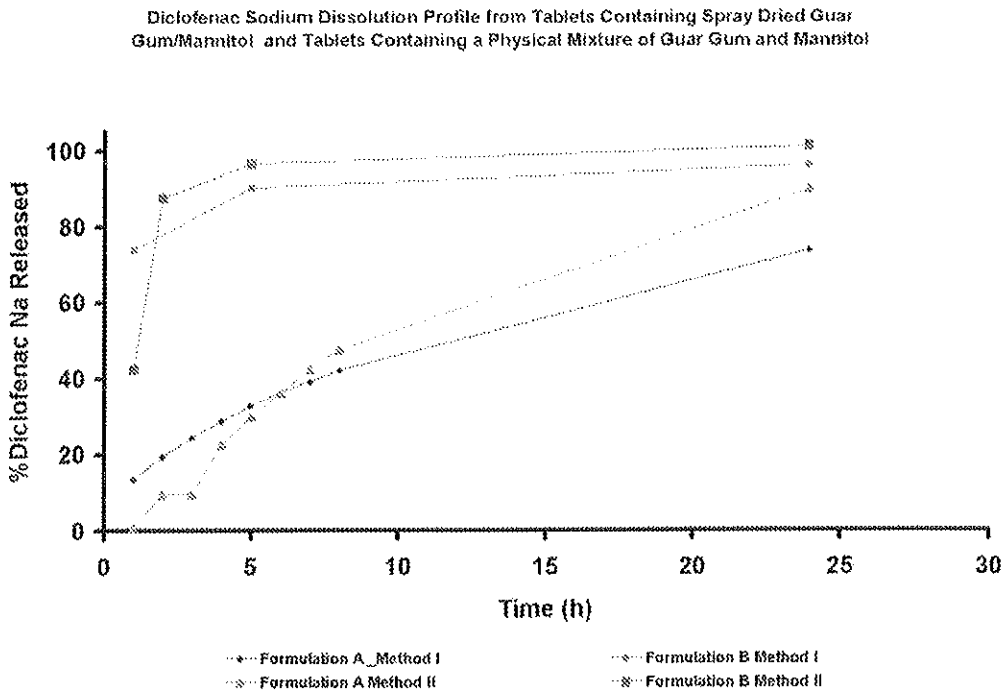

Diclofenac Sodium Dissolution Profile from Tablets Containing Spray Dried Guar Gum/Mannitol and Tablets Containing a Physical Mixture of Guar Gum and Mannitol
% Diclofenac Na Released
100
80
60
40
20
0
0
5
10
15
20
25
30
Time (h)
Formulation A_Method I
Formulation A Method II
Formulation B Method I
Formulation B Method II

Figure 14

Diclofenac Sodium Dissolution Profile from Tablets Containing Spray Dried Guar Gum/Mannitol and Tablets Containing a Physical Mixture of Guar Gum and Mannitol

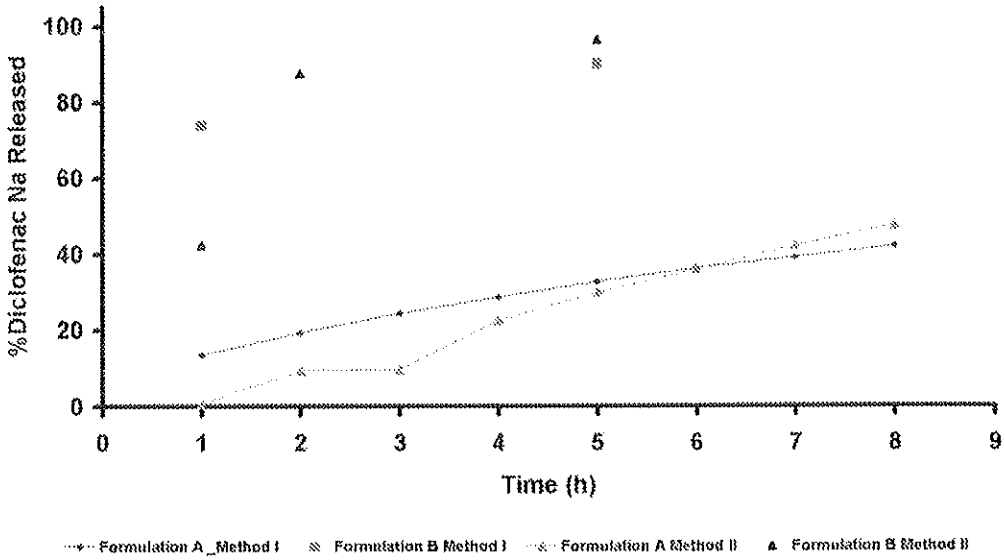


Figure 15

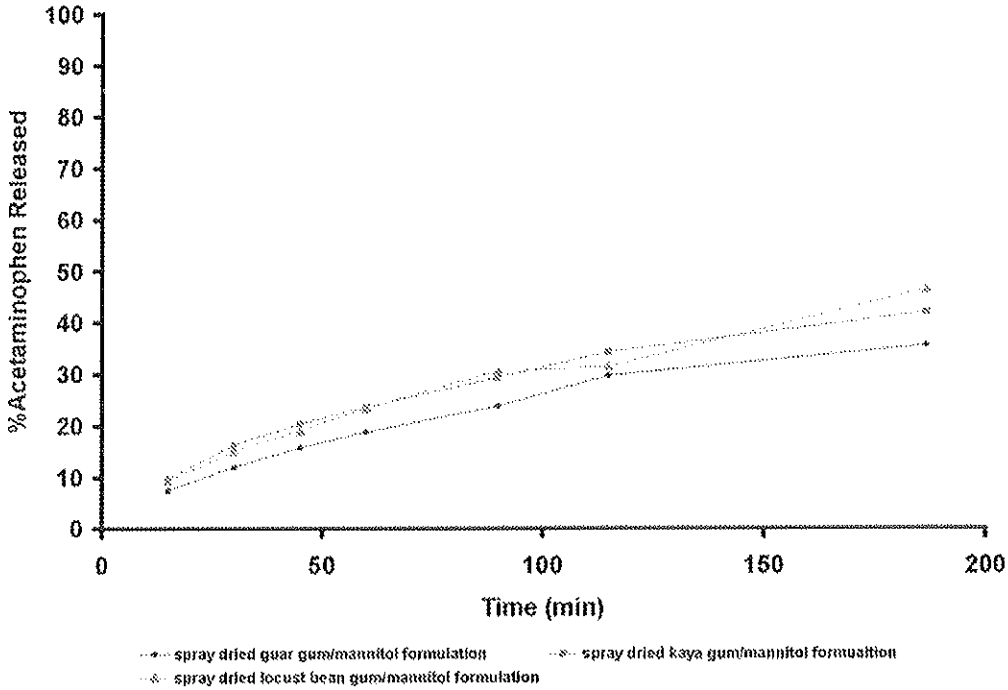

100
90
80
70
60
50
40
30
20
10
0
% Acetaminophen Released
0
50
100
150
200
Time (min)
spray dried guar gum/mannitol formulation
spray dried kaya gum/mannitol formulation
spray dried locust bean gum/mannitol formulation

Figure 16