FIGURE 1

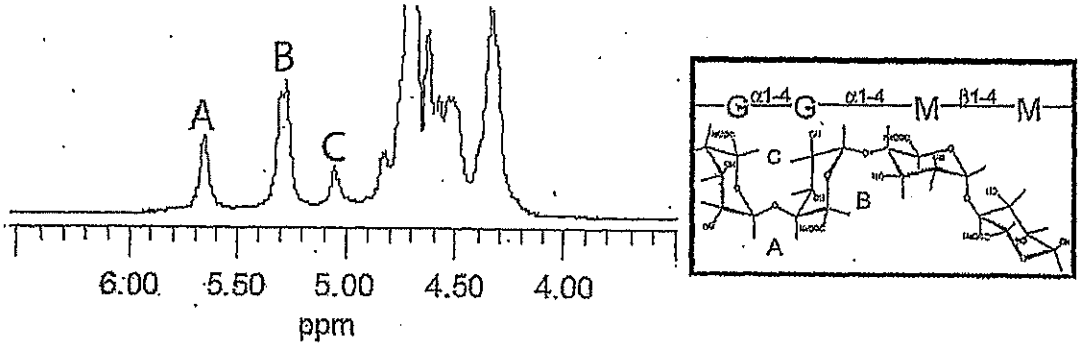
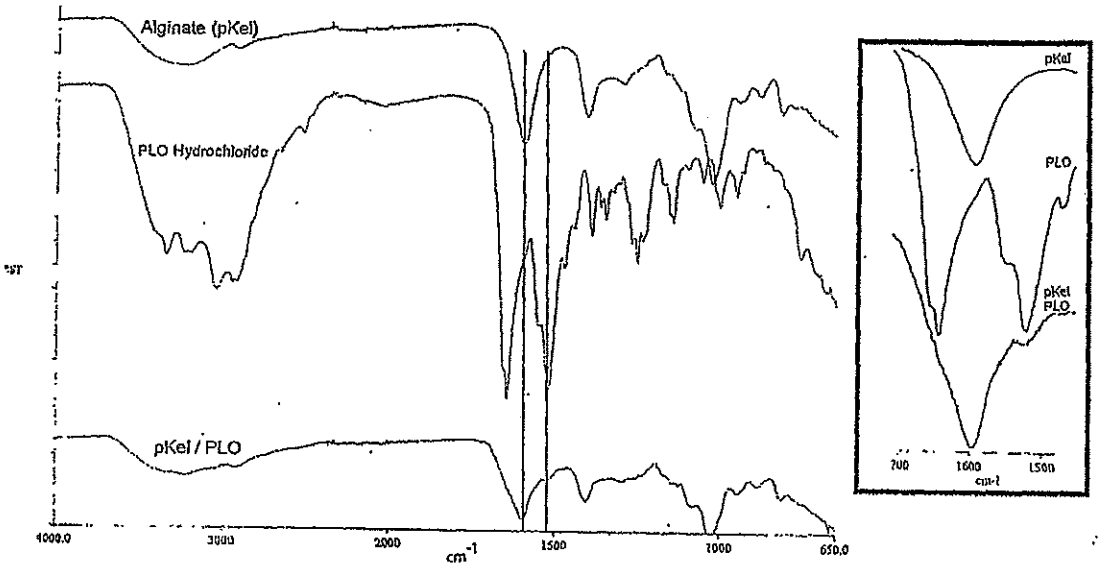


FIGURE 2a


Alginate (pKel)
PLO Hydrochloride
pKel / PLO
4000.0
3000
2000
cm-1
1500
1000
650.0
pKel
PLO
pKel PLO
700
1600
1500
cm-1

A

FIGURE 2b

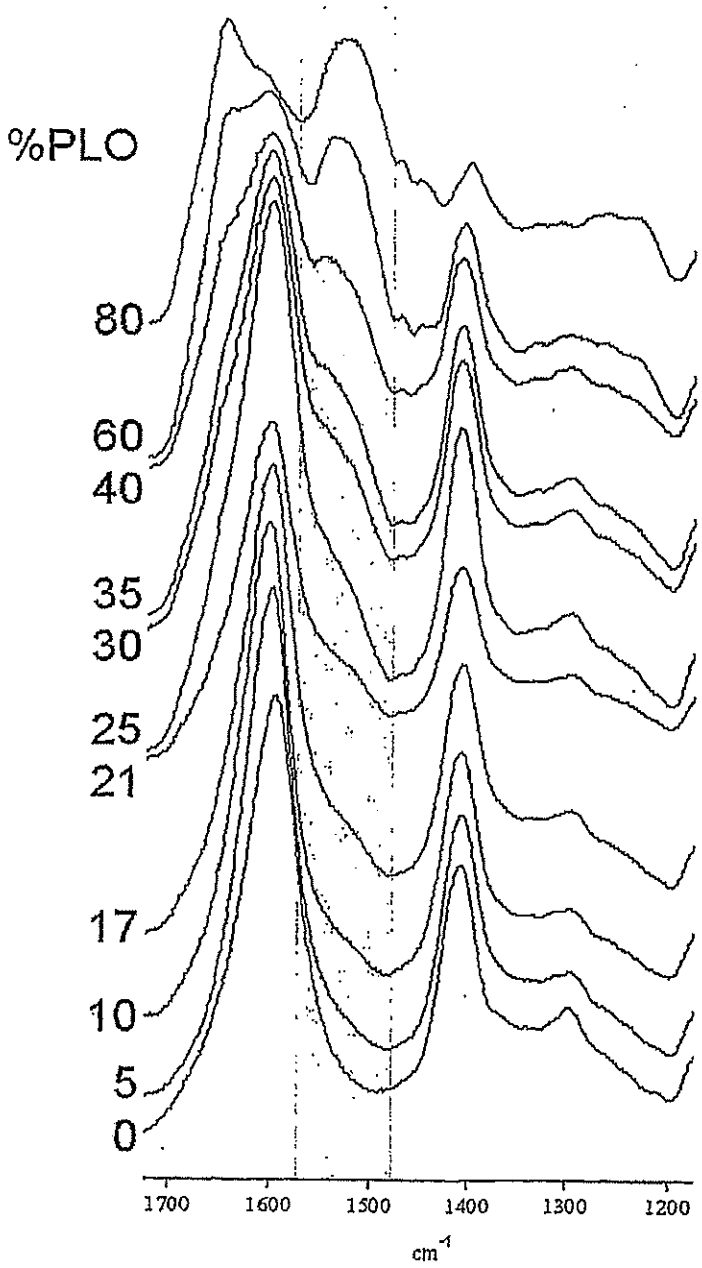
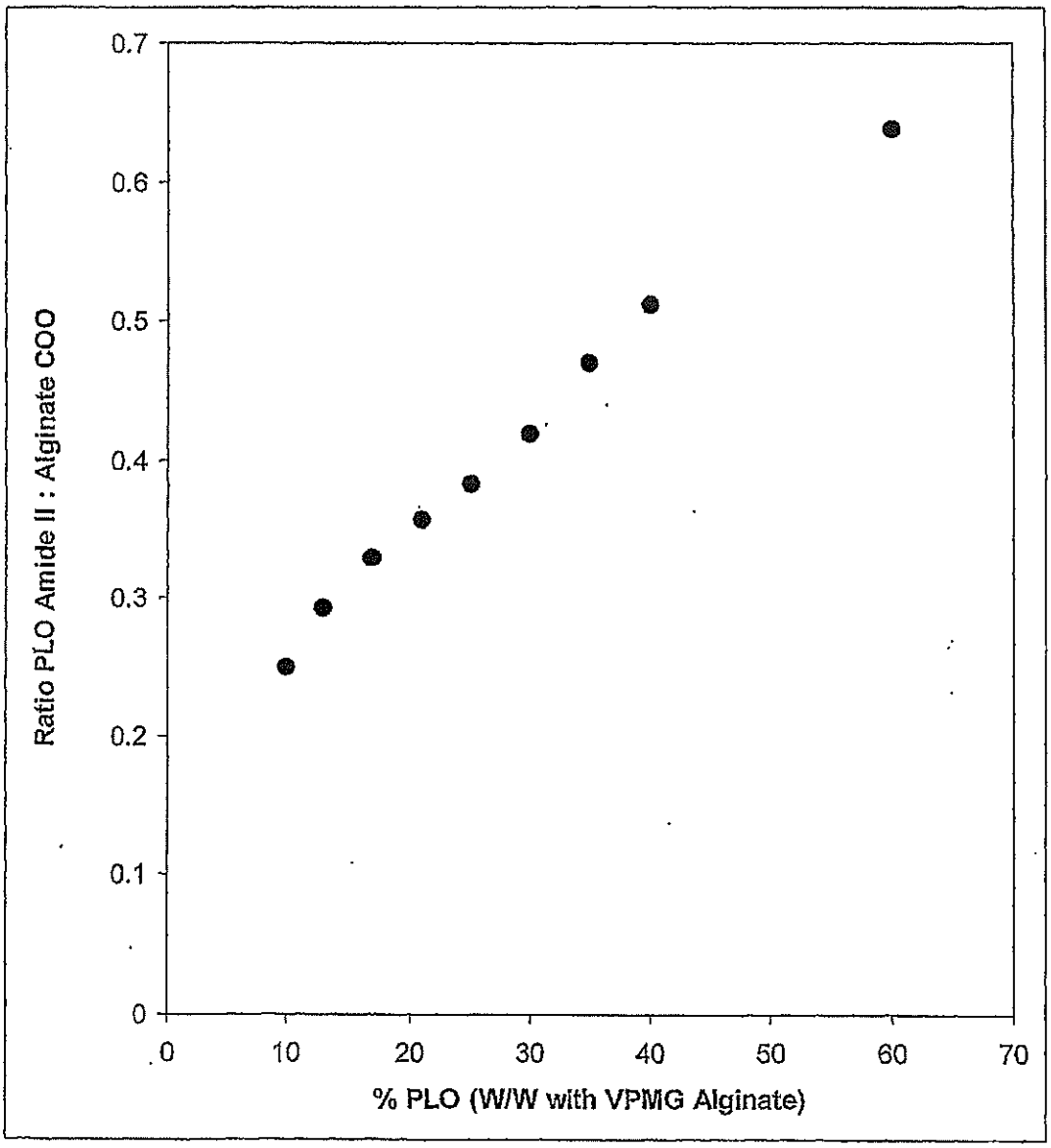

%PLO
80
60
40
35
30
25
21
17
10
5
0
1700
1600
1500
1400
1300
1200
cm-1

FIGURE 2c


Ratio PLO Amide II : Alginate COO
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
% PLO (W/W with VPMG Alginate)

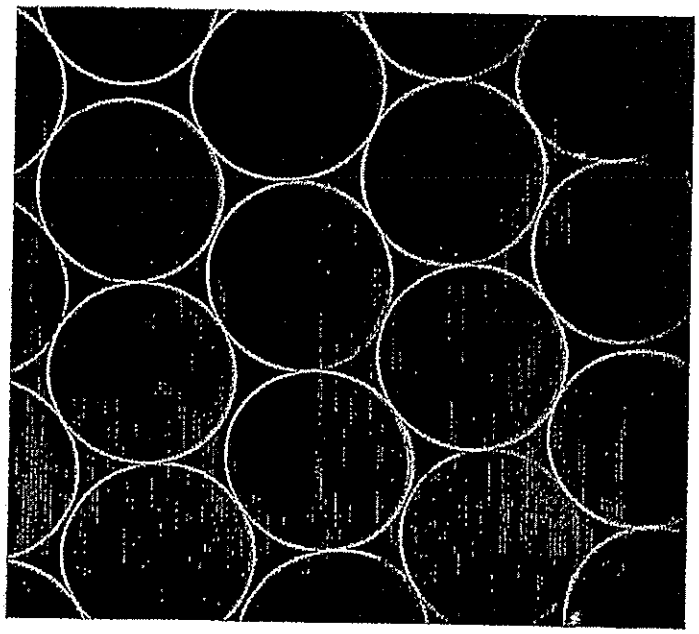
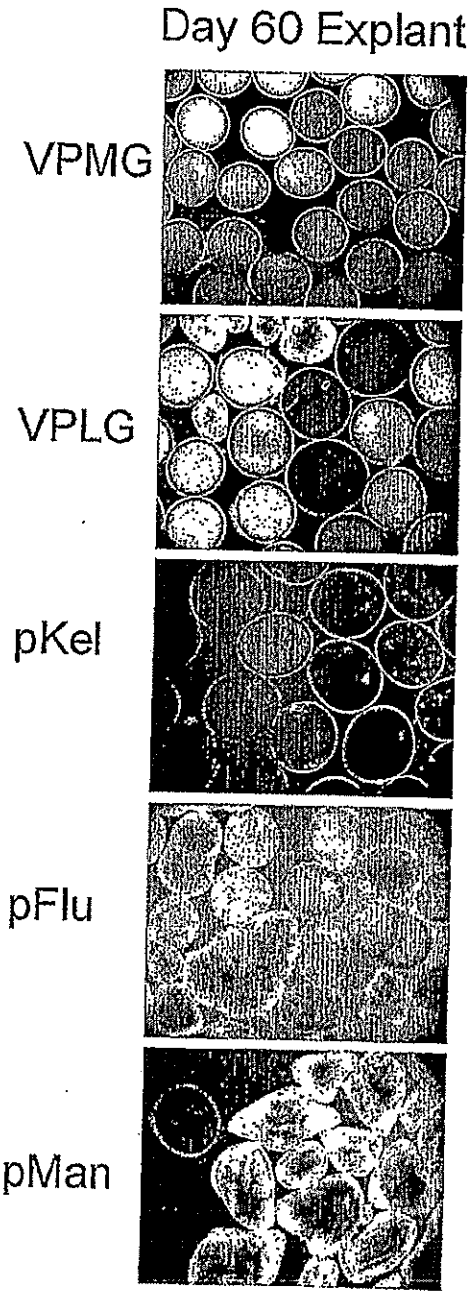


FIGURE 3

FIGURE 4



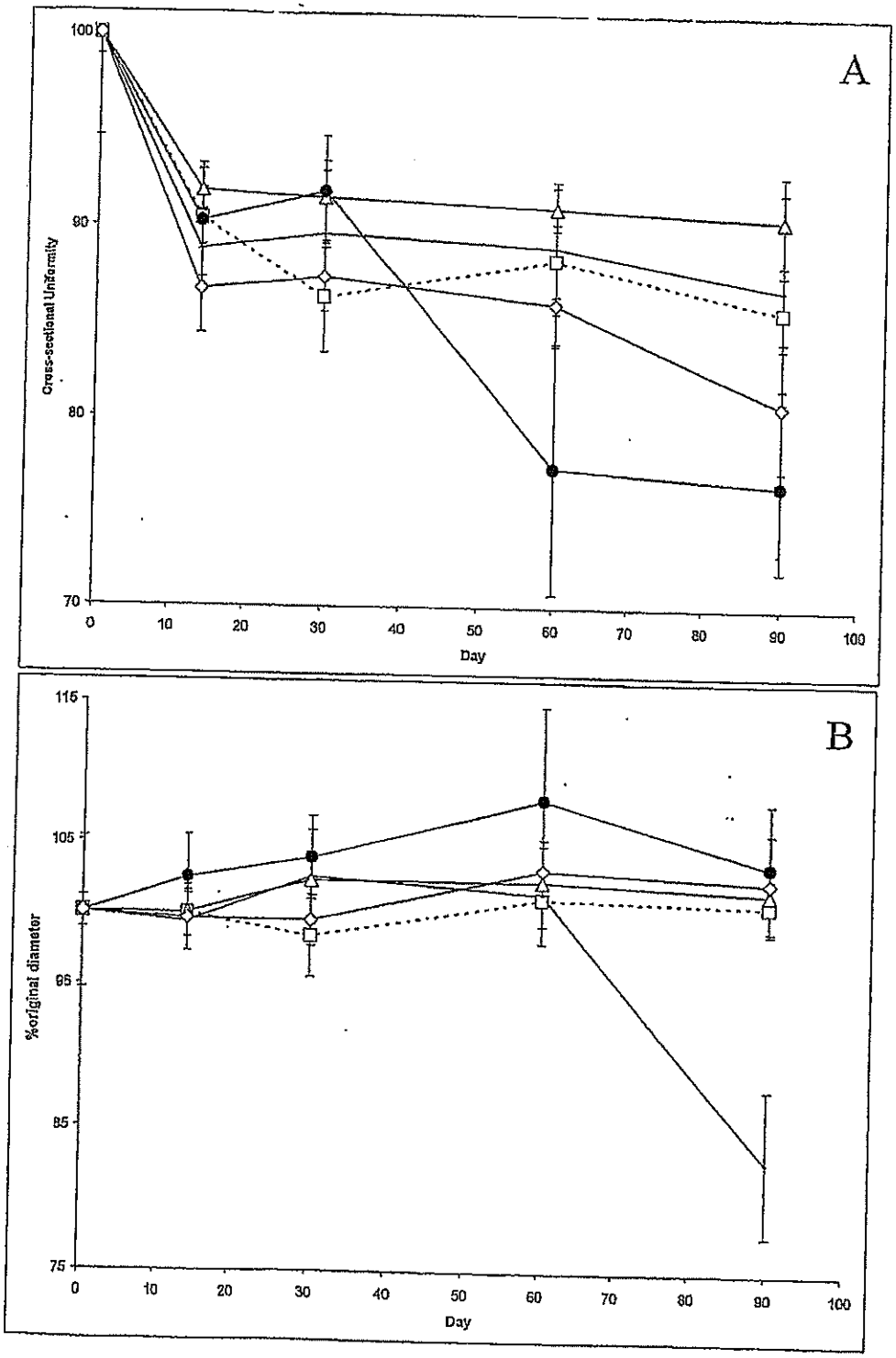

A
Cross-sectional Uniformity
100
90
80
70
0
10
20
30
40
50
60
70
80
90
100
Day
B
%original diameter
115
105
95
85
75
0
10
20
30
40
50
60
70
80
90
100
Day

FIGURE 5

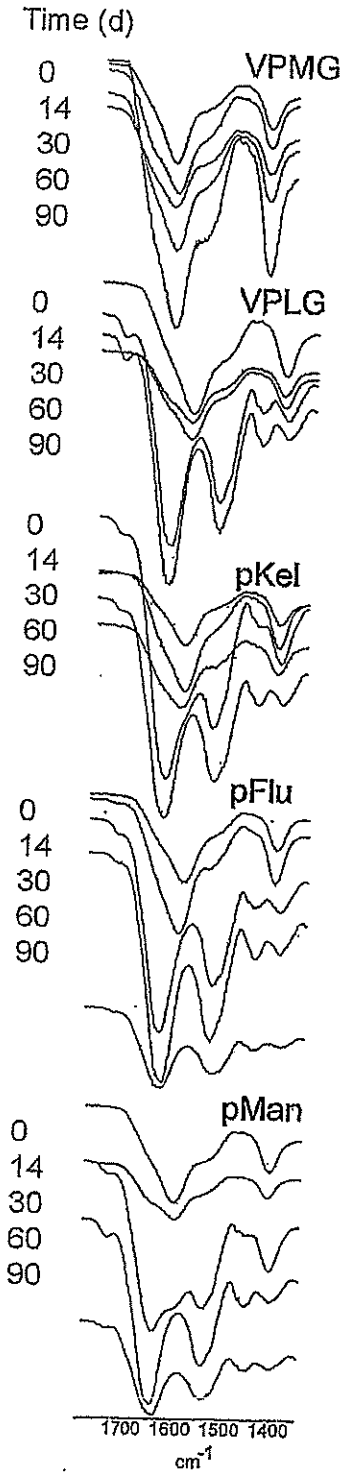

Time (d)
0
14
30
60
90
VPMG
VPLG
pKel
pFlu
pMan
1700 1600 1500 1400
cm-1

FIGURE 6

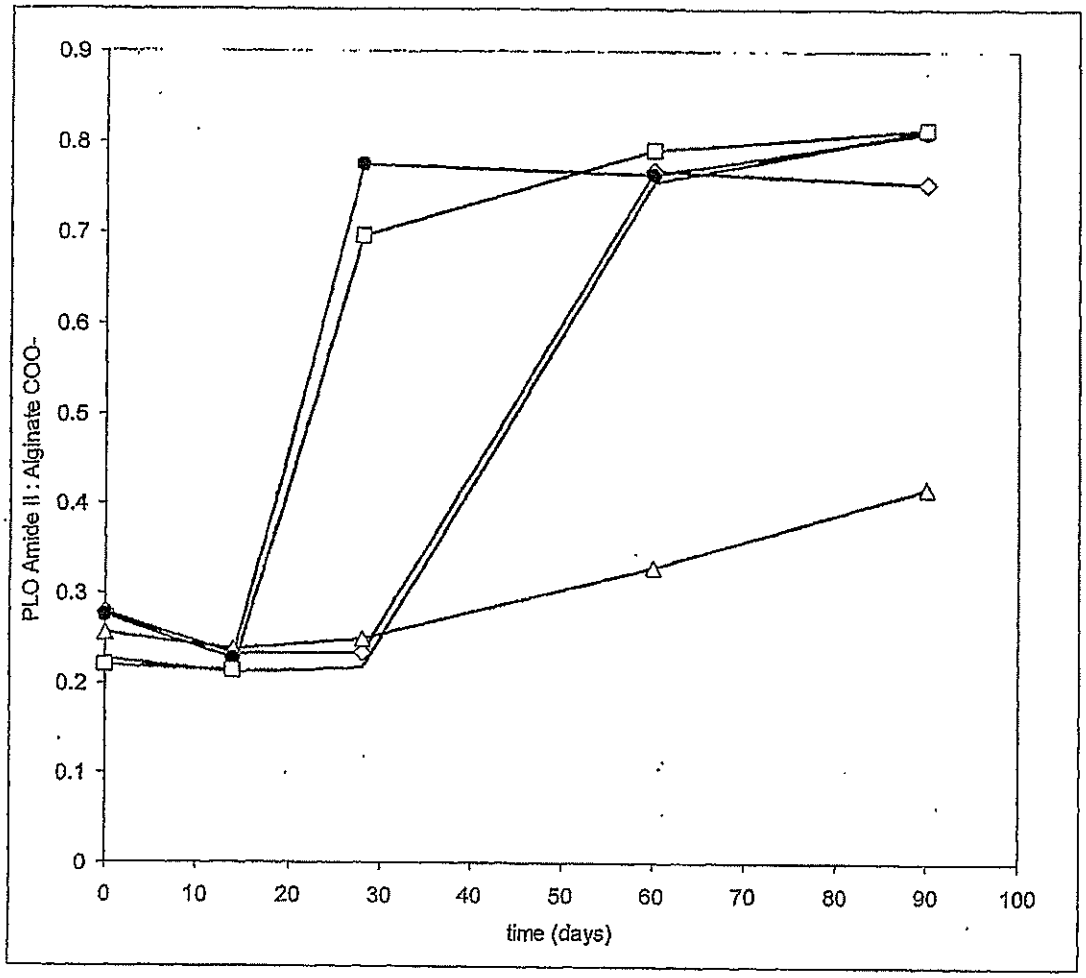

0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
PLO Amide II : Alginate COO-
0
10
20
30
40
50
60
70
80
90
100
time (days)

FIGURE 7

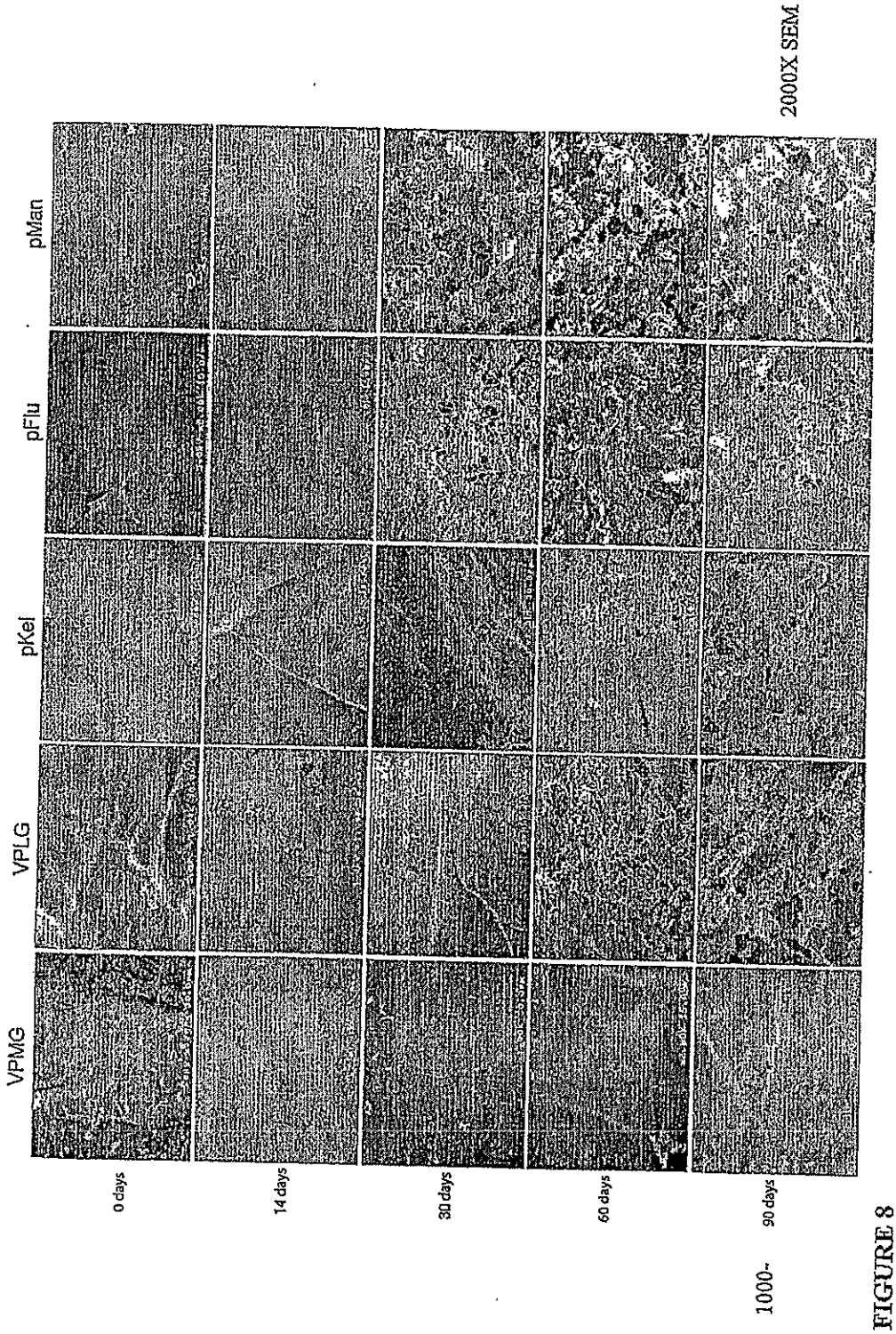

2000X SEM
pMan
pFlu
pKel
VPLG
VPMG
0 days
14 days
30 days
60 days
90 days
1000-

FIGURE 8

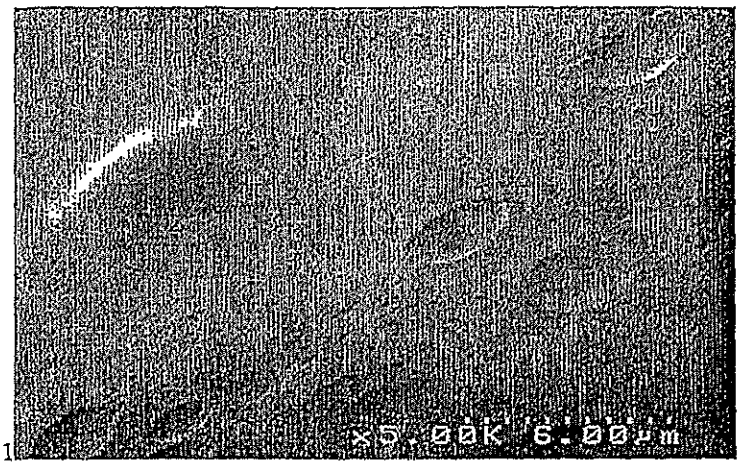


FIGURE 9