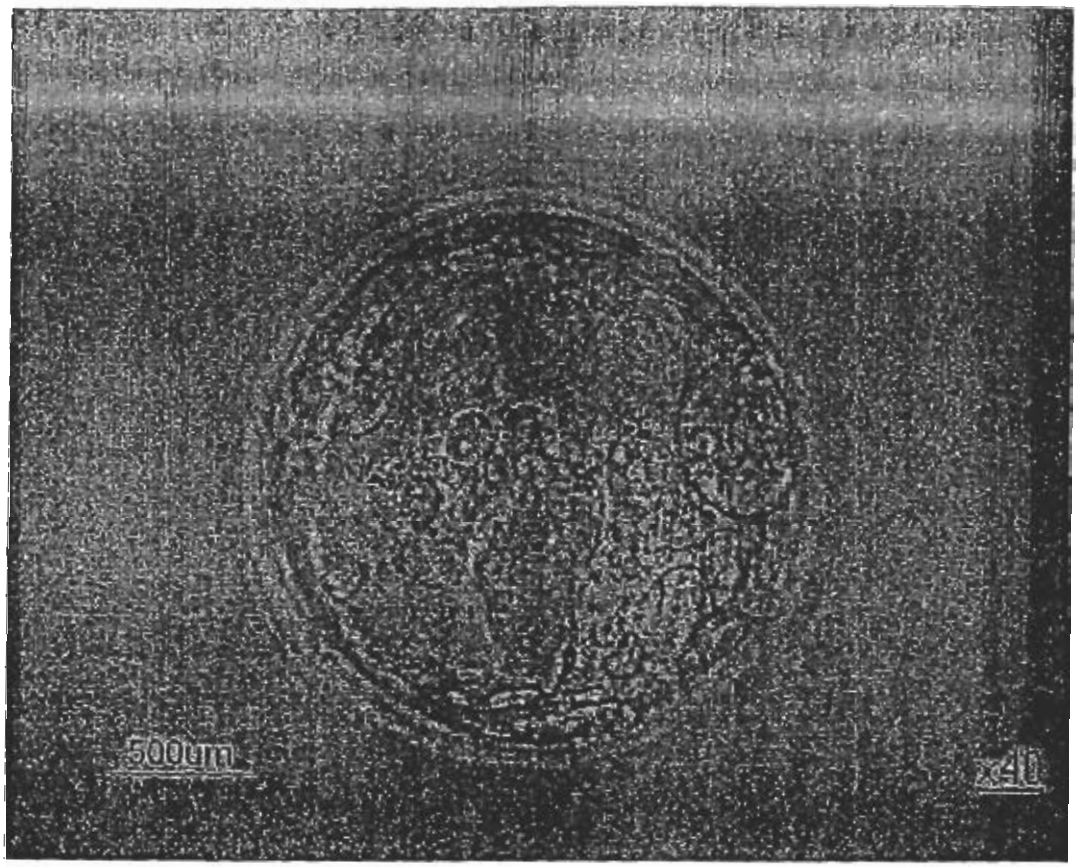


FIG 1

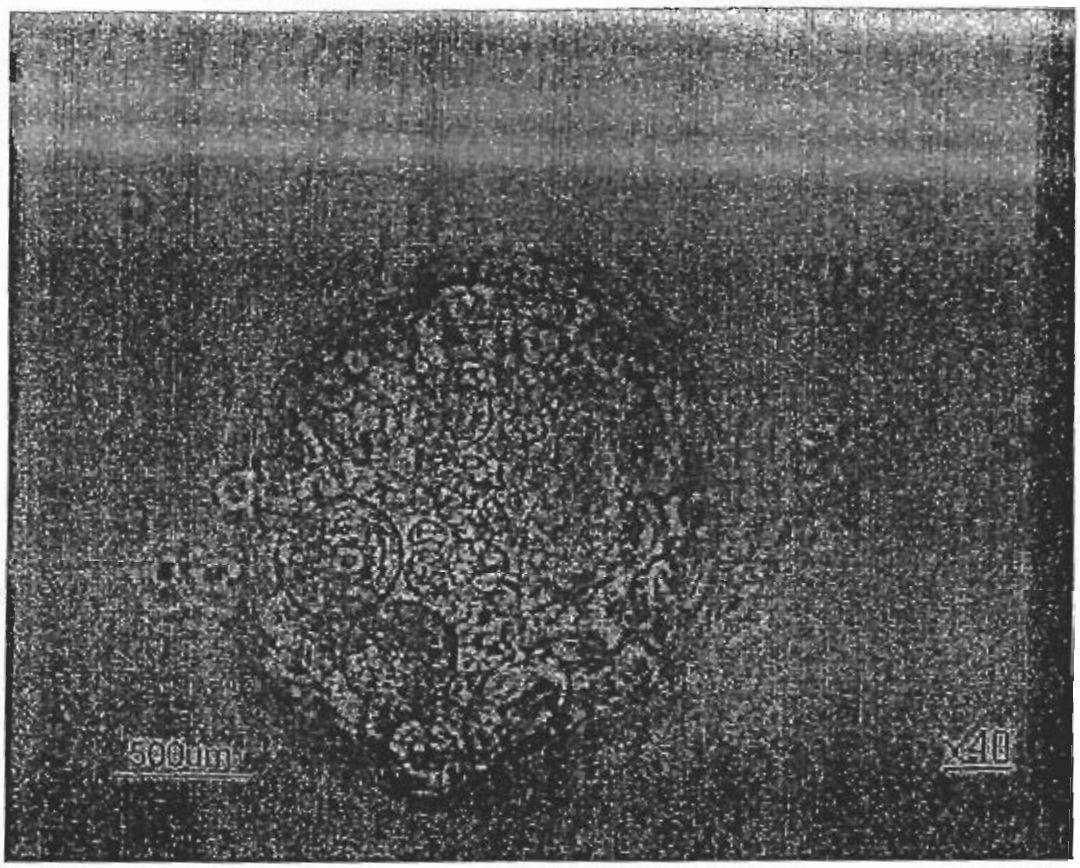


FIG 2

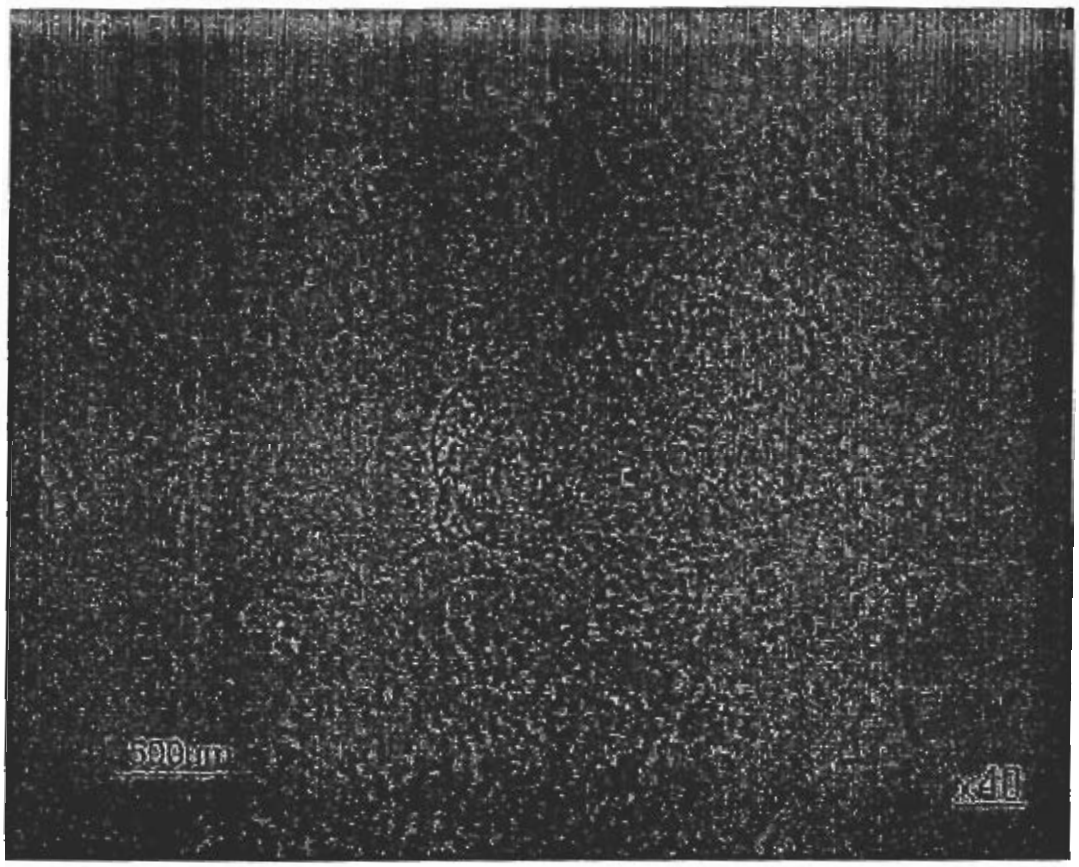


FIG 3

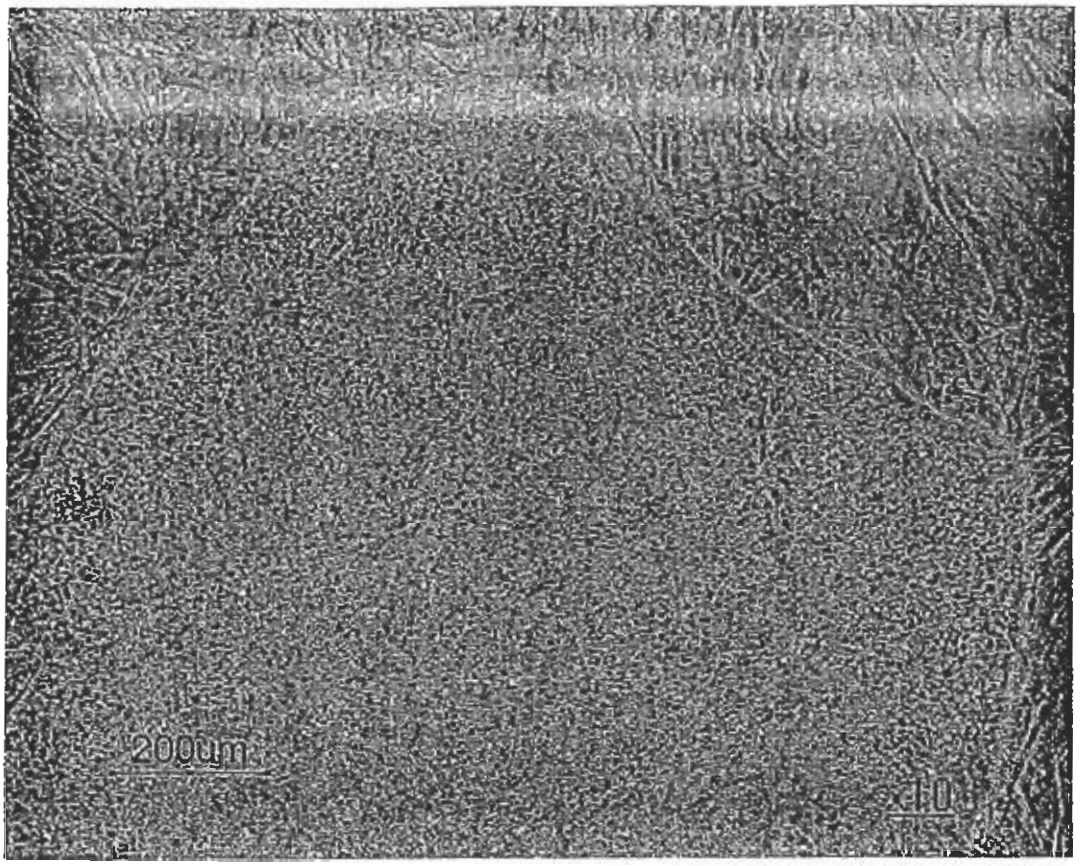


FIG 4

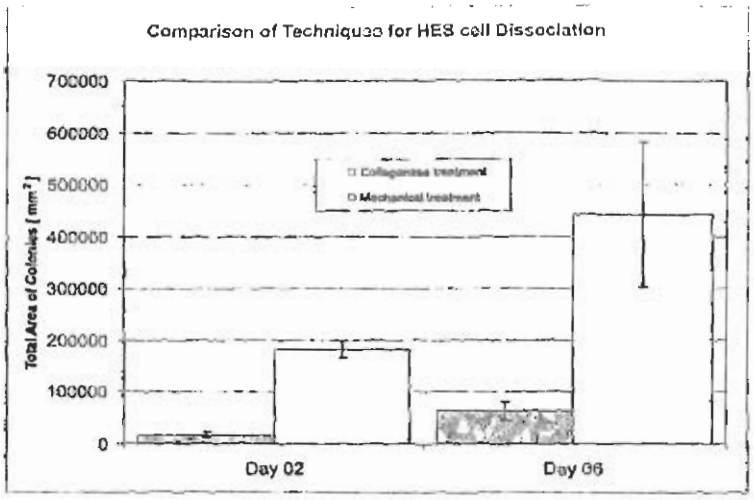

Comparison of Techniques for HES cell Dissociation
700000
600000
500000
400000
300000
200000
100000
0
Total Area of Colonies [mm²]
Collagenase treatment
Mechanical treatment
Day 02
Day 06

Fig. 5

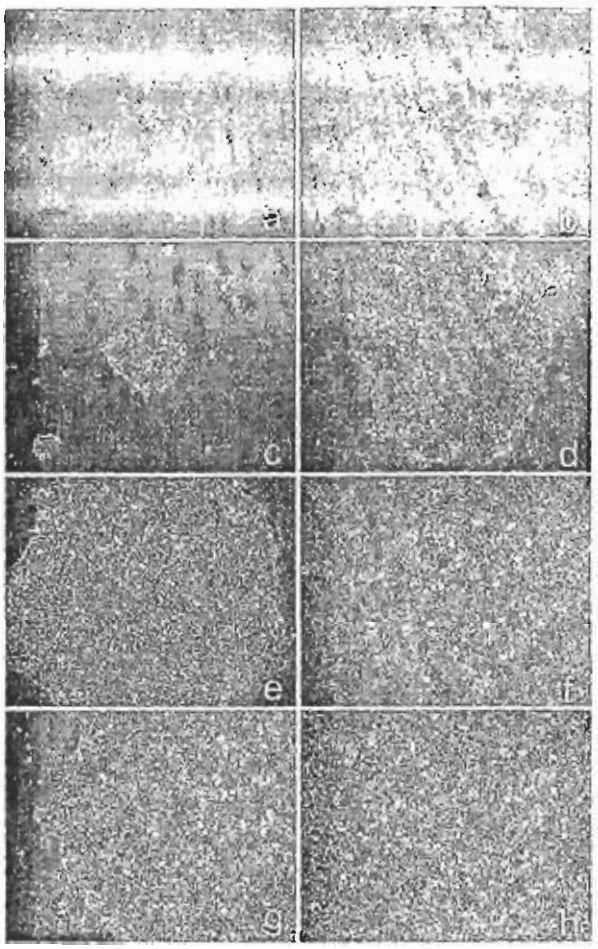


Fig. 6

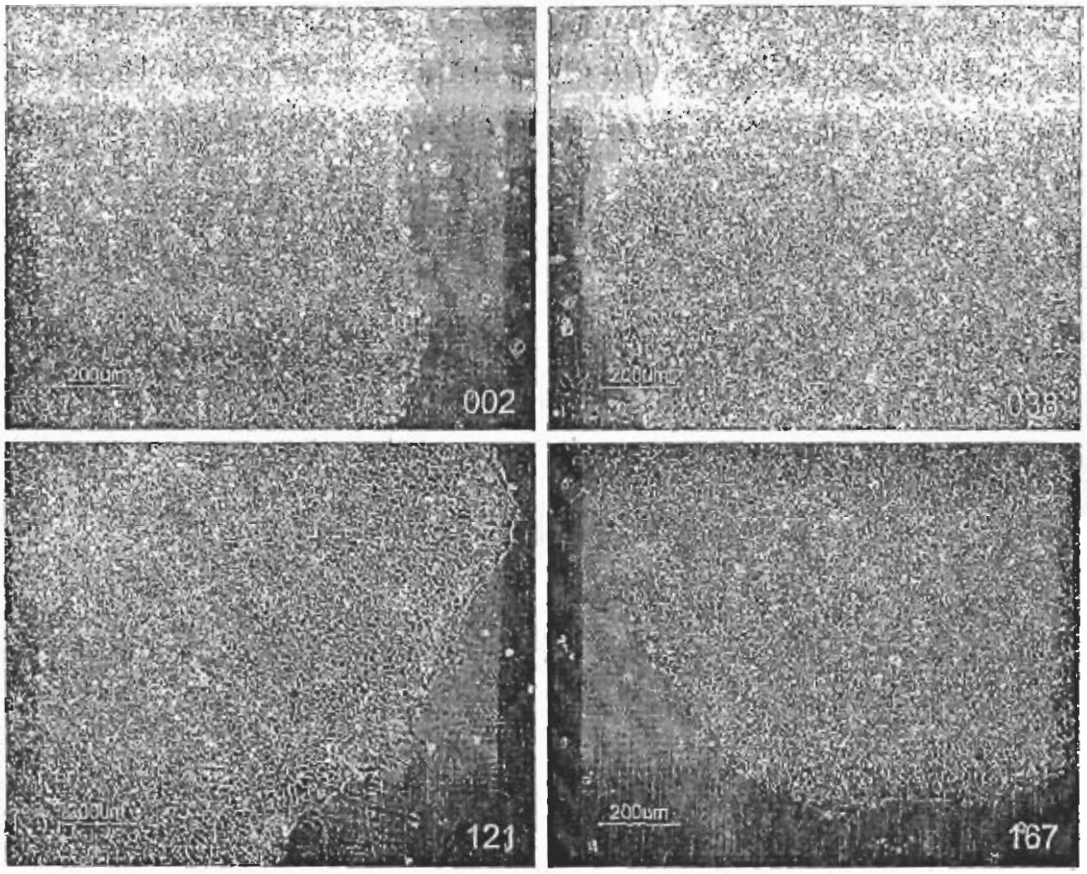


Fig 7

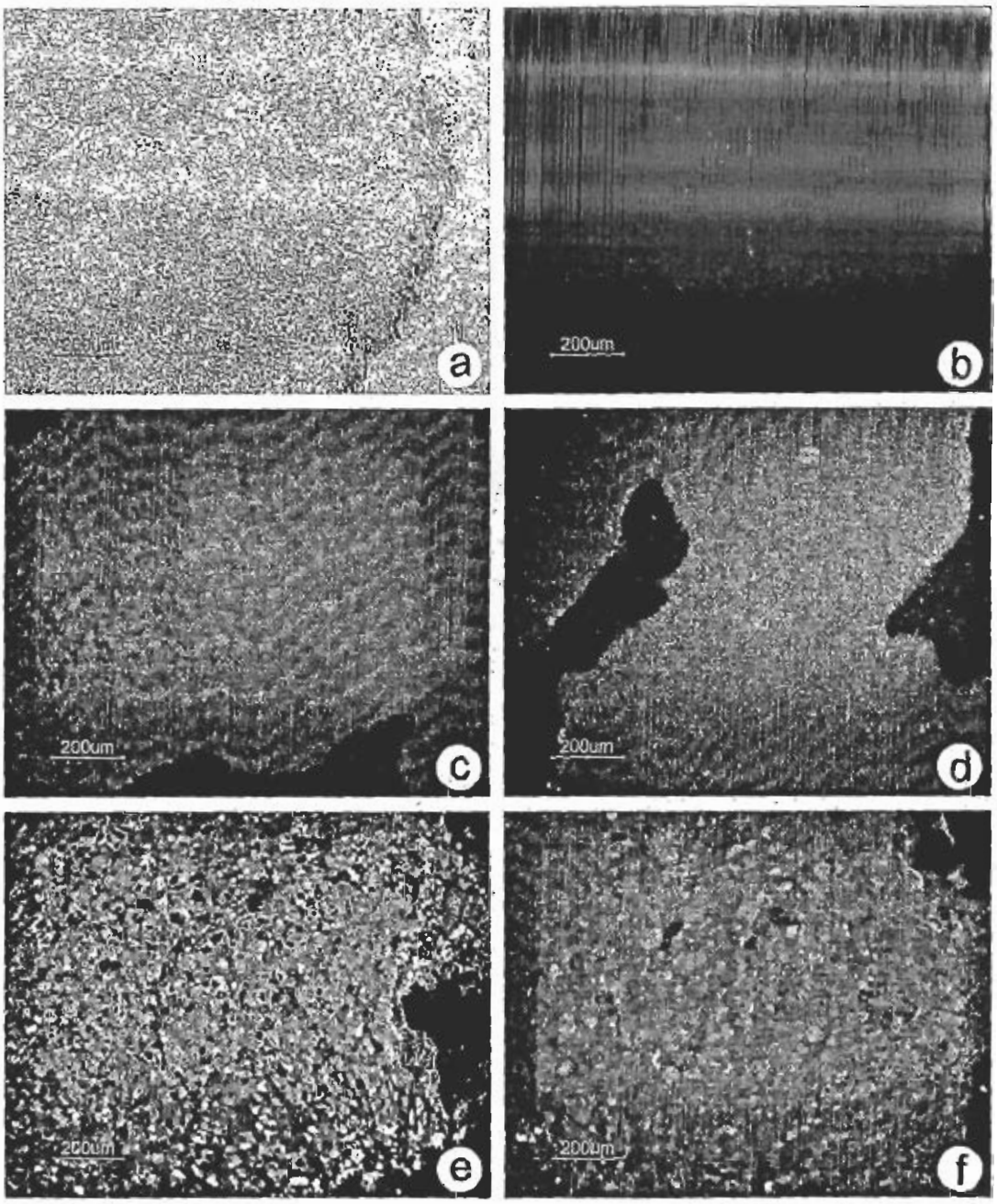


Fig. 8

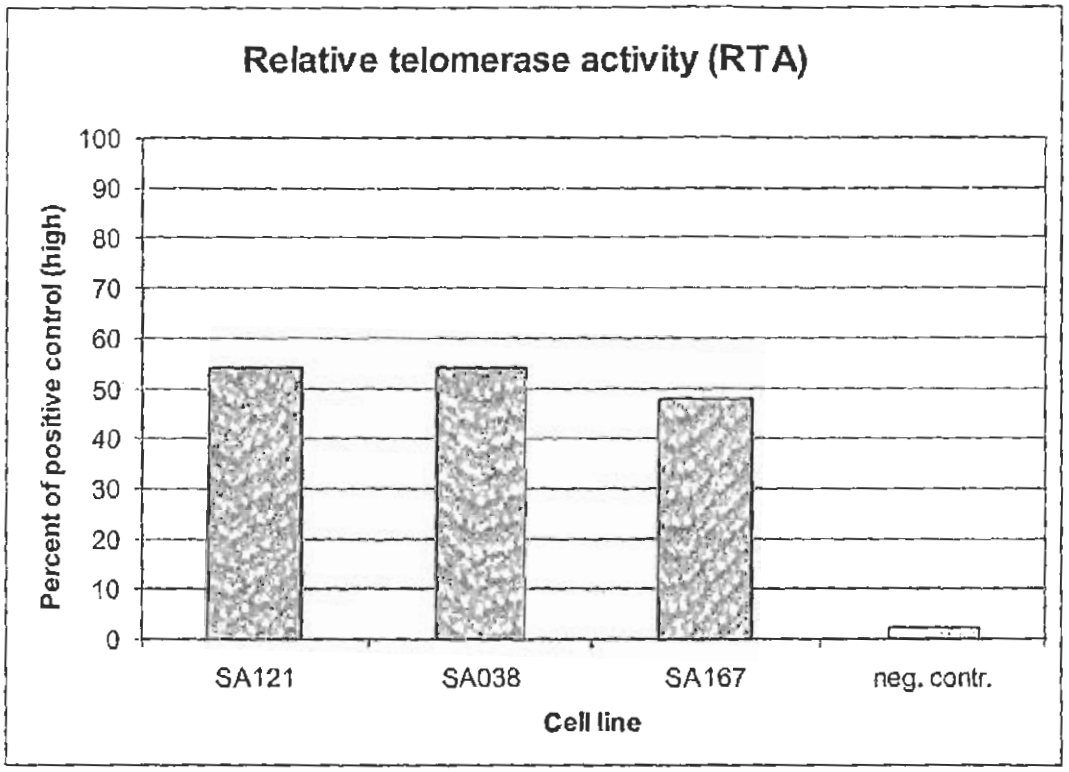

Relative telomerase activity (RTA)
Percent of positive control (high)
100
90
80
70
60
50
40
30
20
10
0
SA121
SA038
SA167
neg. contr.
Cell line

Fig. 9

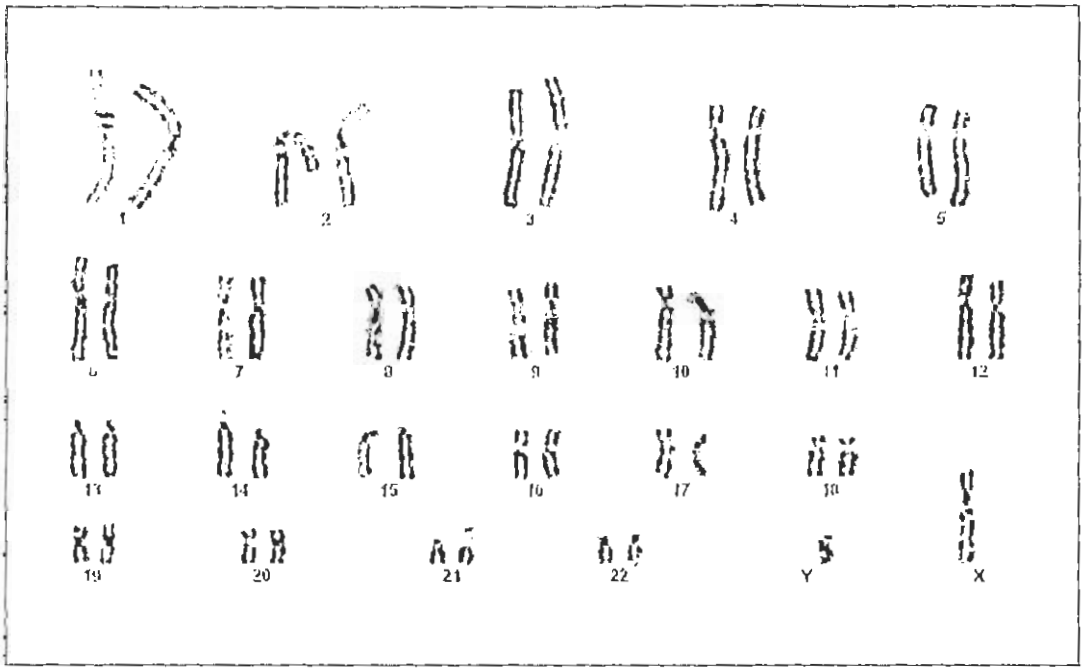


Fig. 10

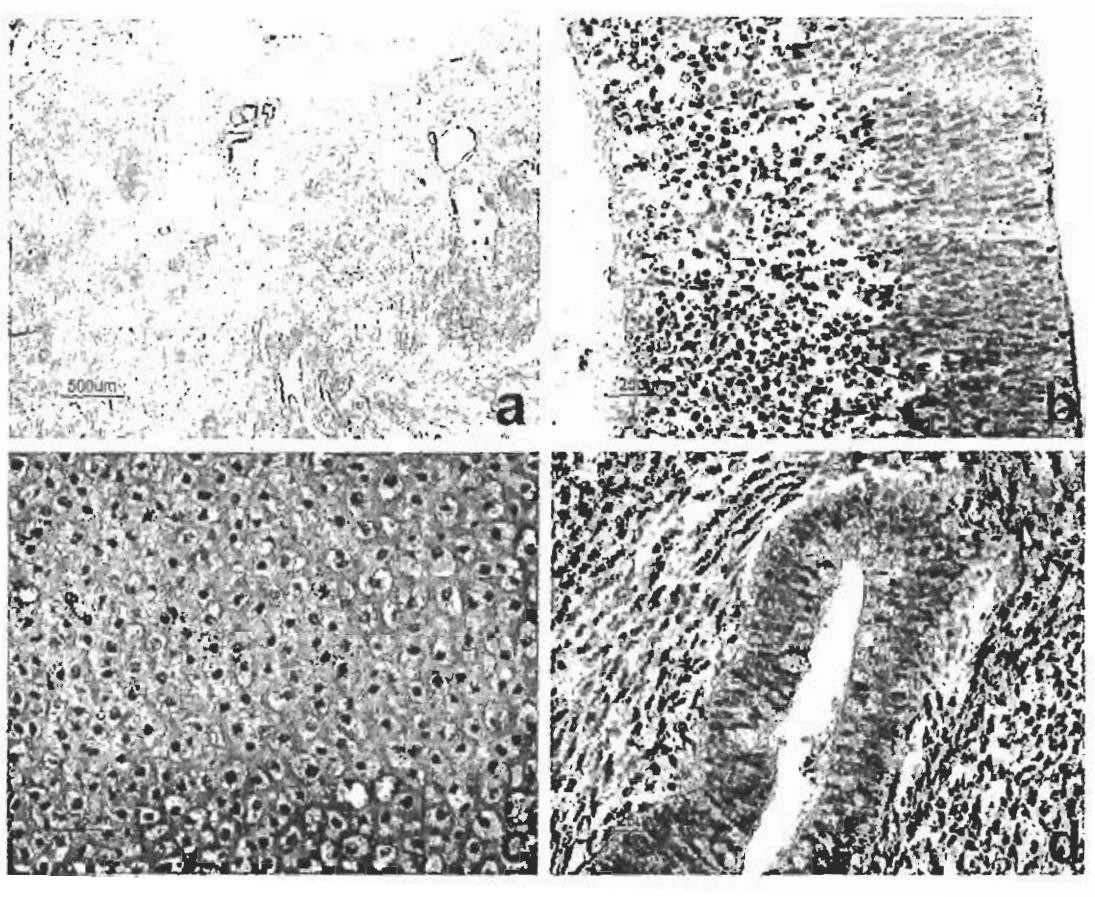


Fig. 11

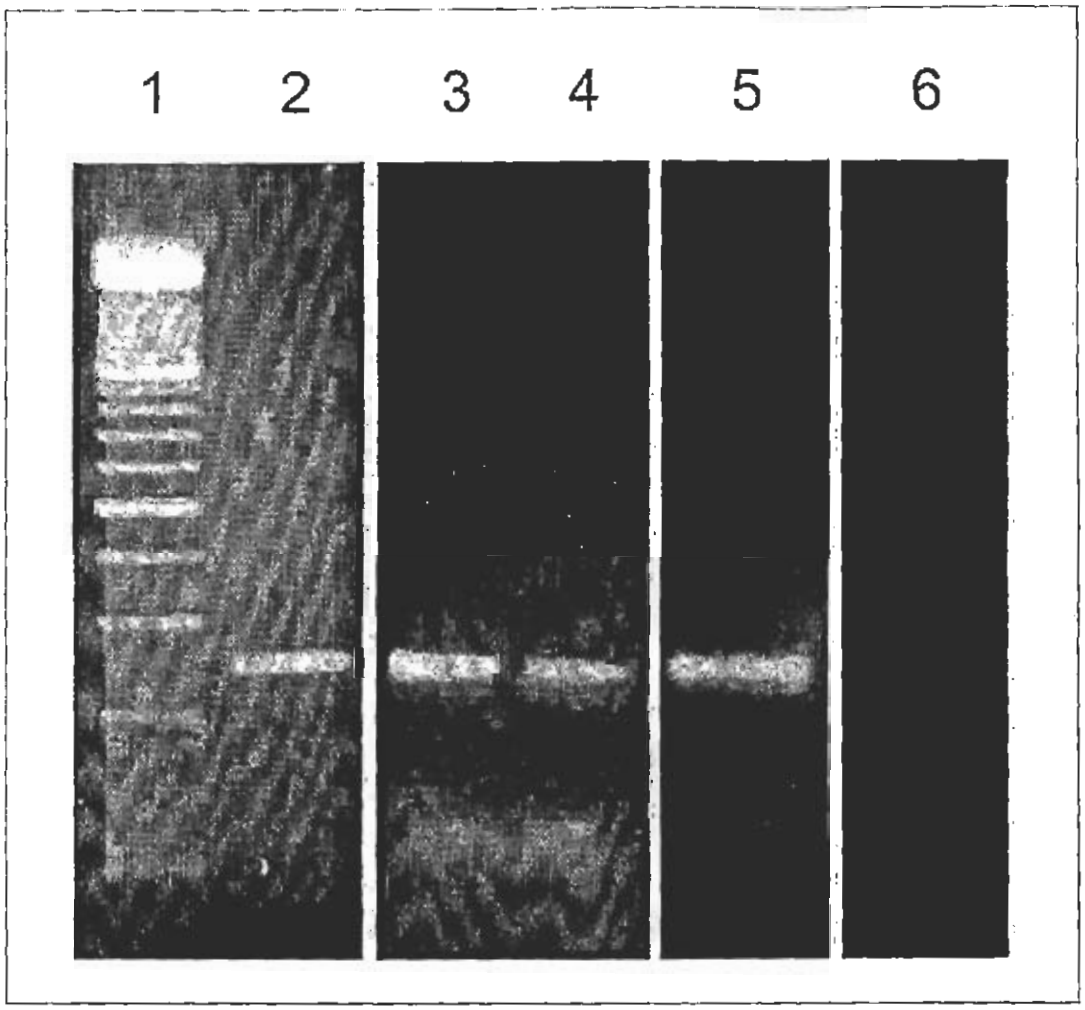


Fig. 12

Mitotic index:

Culture method	Mean	Std. dev.
Feeder (mEF)	4.19	0.939
Feeder-free (Matrigel™)	3.50	0.655

Fig 13

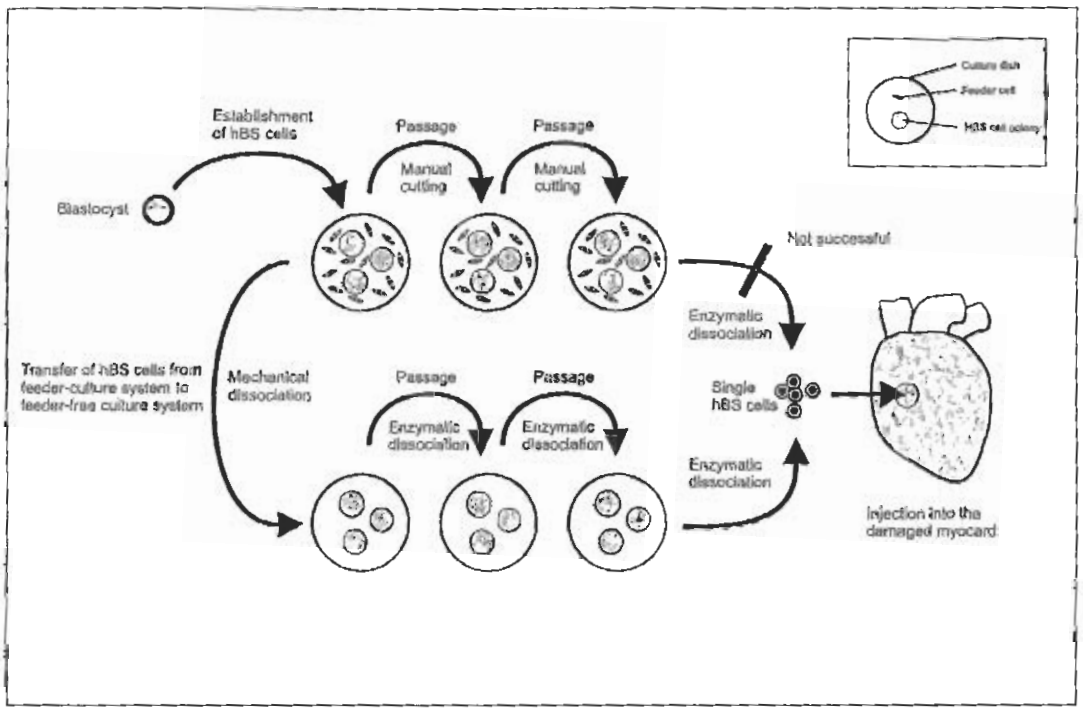

Culture dish
Feeder cell
hBS cell colony
Establishment of hBS cells
Passage
Passage
Manual cutting
Manual cutting
Blastocyst
Not successful
Enzymatic dissociation
Transfer of hBS cells from feeder-culture system to feeder-free culture system
Mechanical dissociation
Passage
Passage
Enzymatic dissociation
Enzymatic dissociation
Single hBS cells
Enzymatic dissociation
Injection into the damaged myocard

Fig. 14



Fig. 15