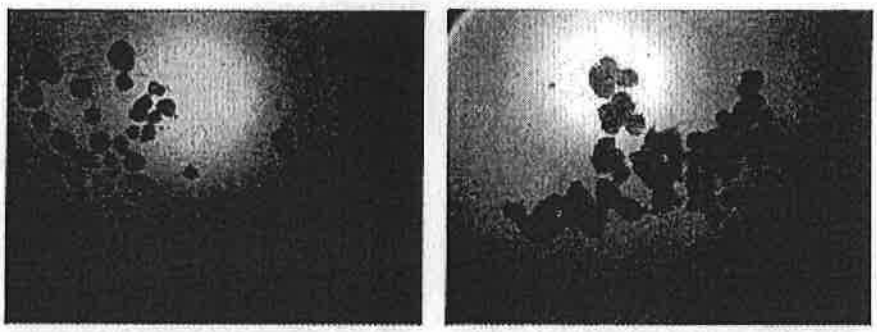
Fig. 1



Fig. 2



Fig. 3



with deacylated gellan gum without deacylated gellan gum

Fig. 4

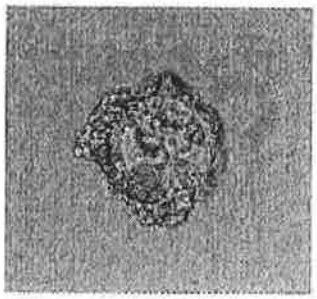


Fig. 5



xanthan gum
(0.15%)



κ-carageenan + locust bean gum
(0.05%) + (0.05%)

Fig. 6

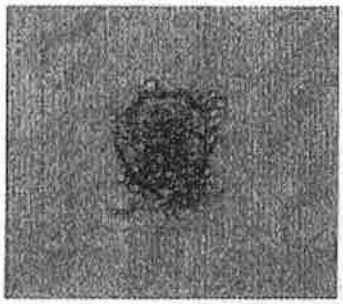


Fig. 7

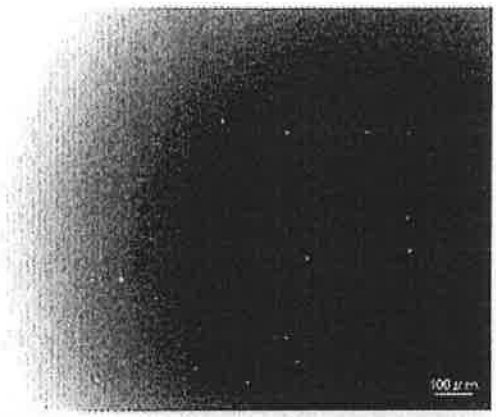


Fig. 8



Fig. 9

laminin-coated GEM

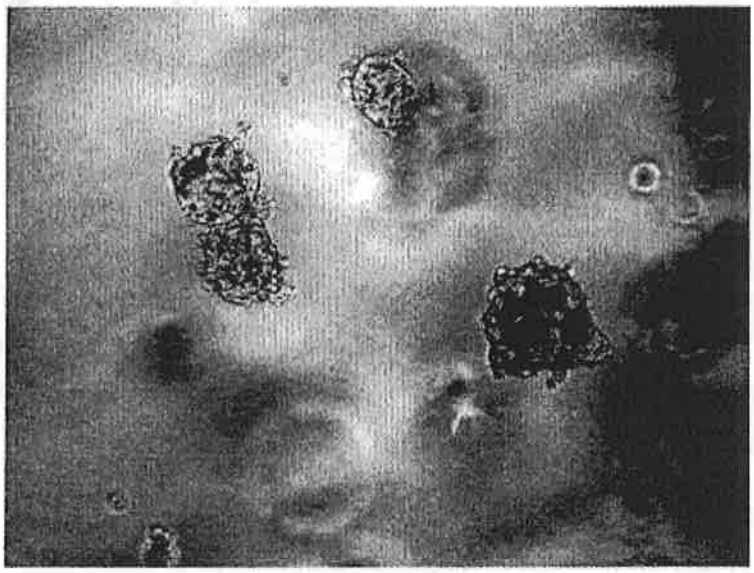


Fig. 10

alginic acid beads

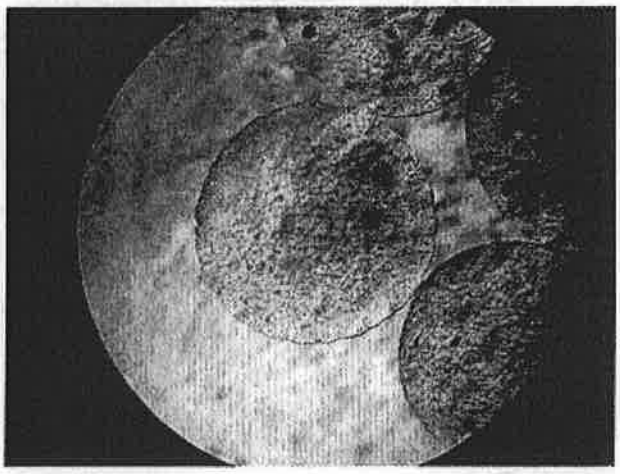


Fig. 11

collagen gel capsule

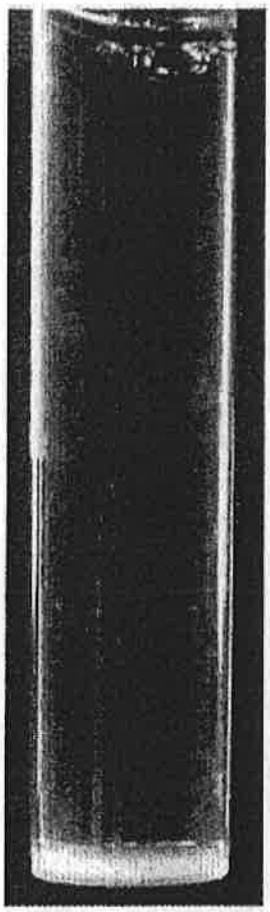


Fig. 12

suspension culture of
rice-derived callus



Fig. 13

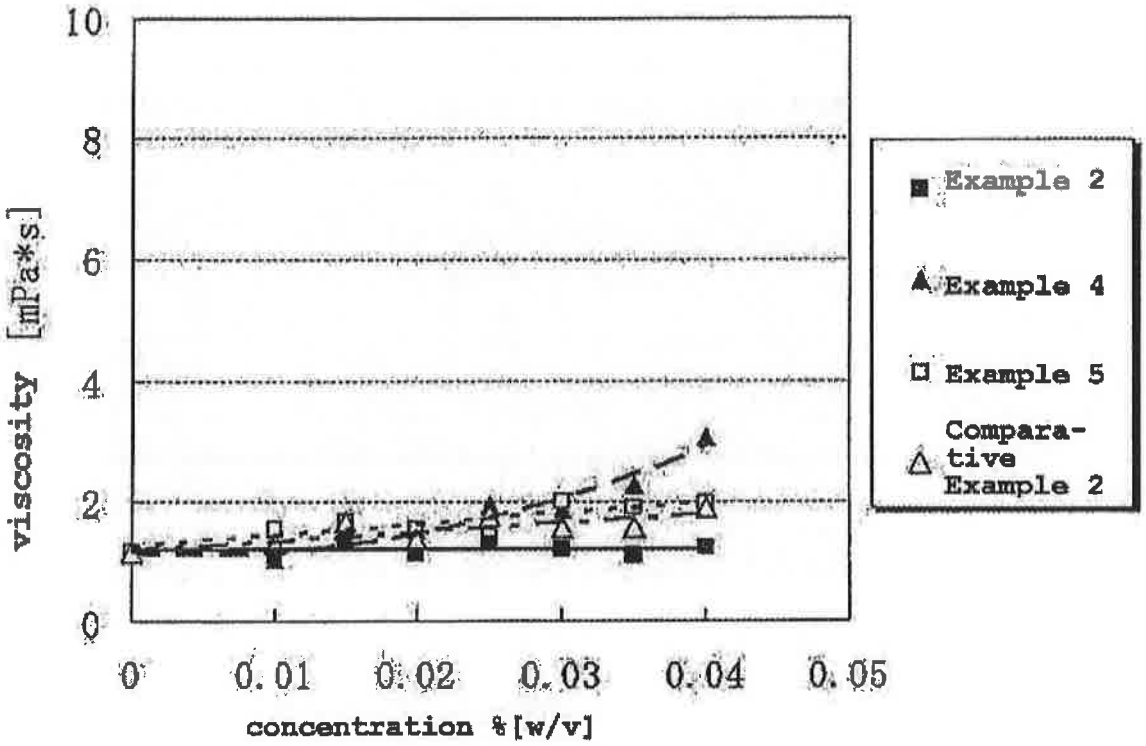

10
8
6
4
2
0
viscosity [mPa*s]
0
0.01
0.02
0.03
0.04
0.05
concentration %[w/v]
Example 2
Example 4
Example 5
Compara-
tive
Example 2

Fig. 14

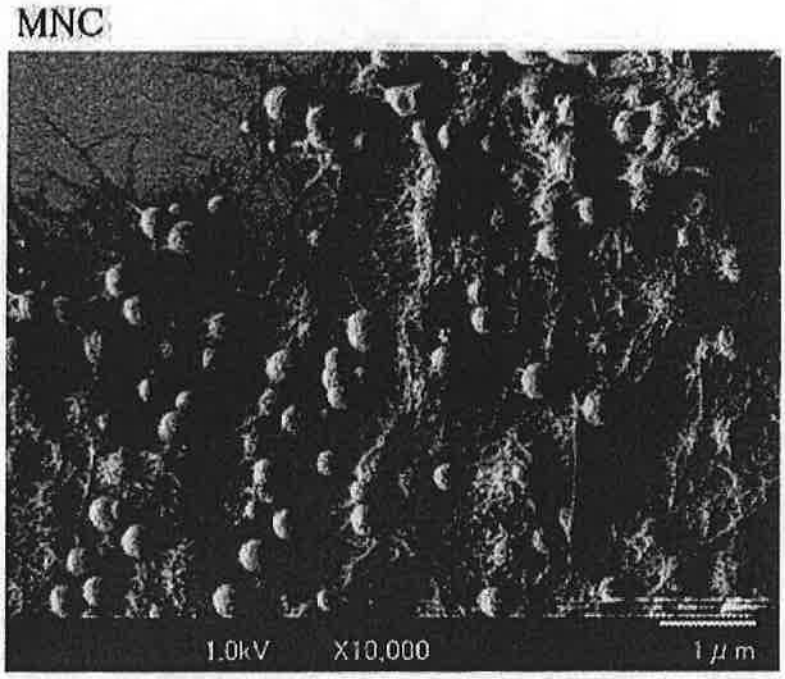

MNC
1.0kV
X10,000
1μm

Fig. 15

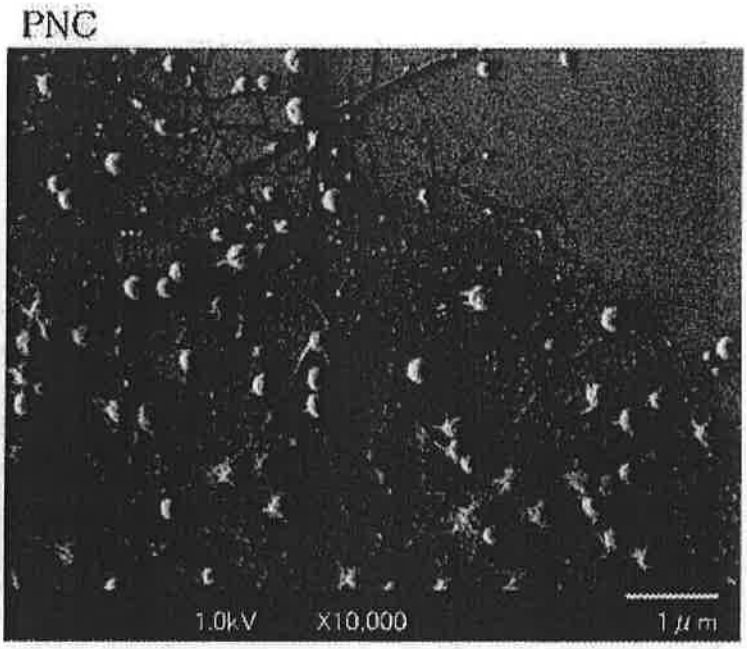


Fig. 16

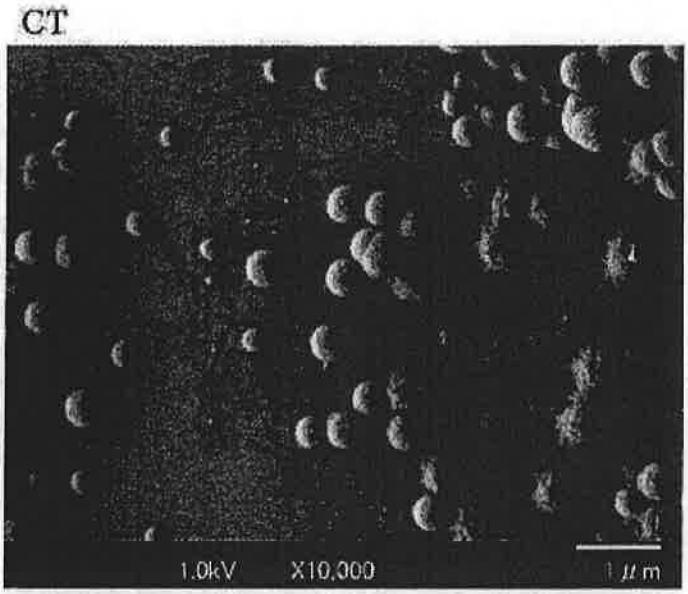


Fig. 17

DAG

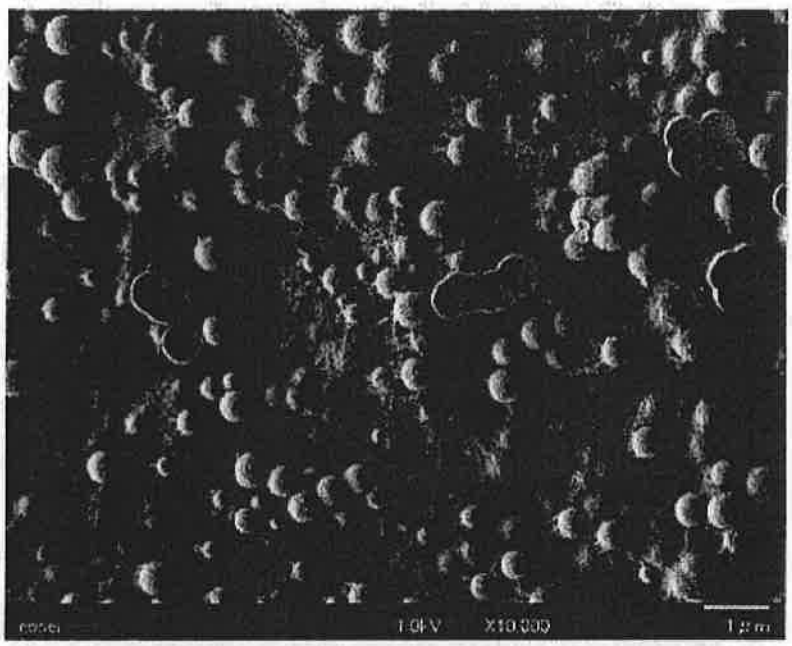


Fig. 18

Car dried at room temperature



Fig. 19

Car dried at 110°C

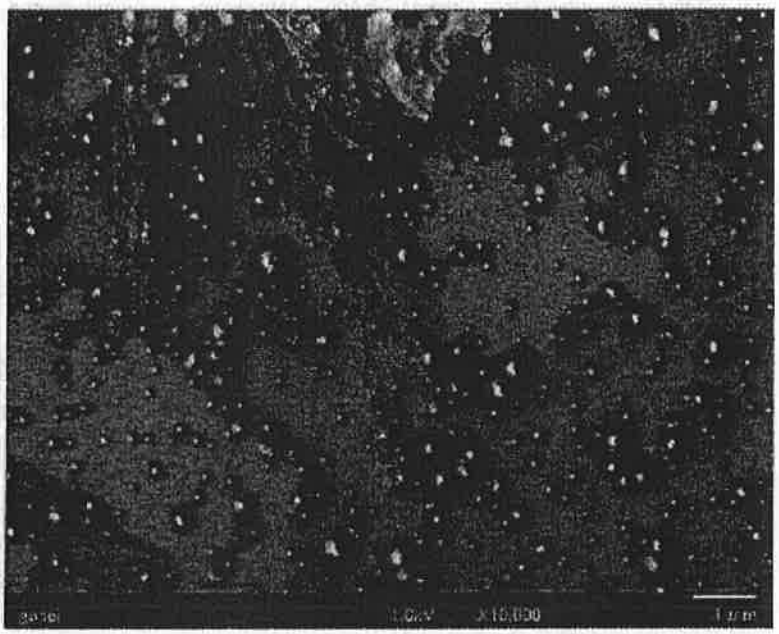


Fig. 20

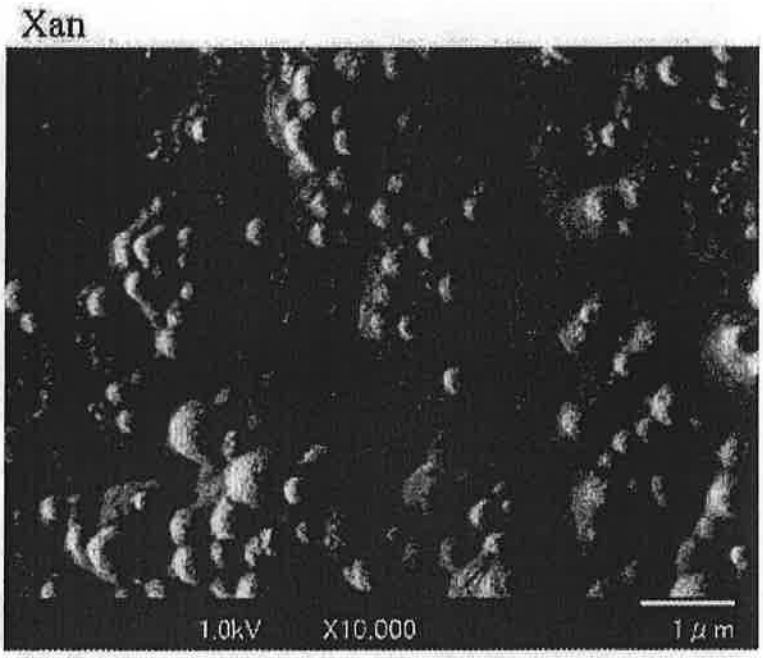


Fig. 21

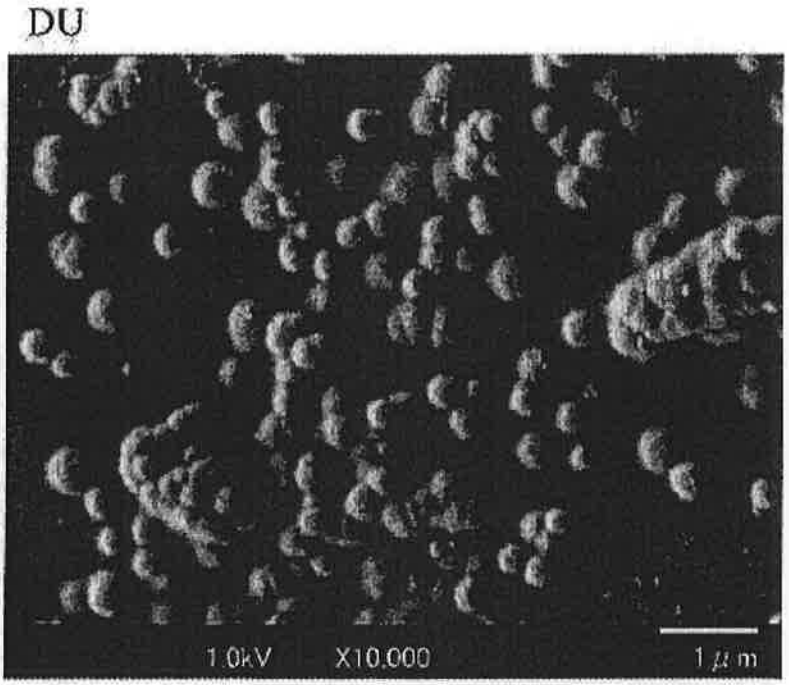


Fig. 22

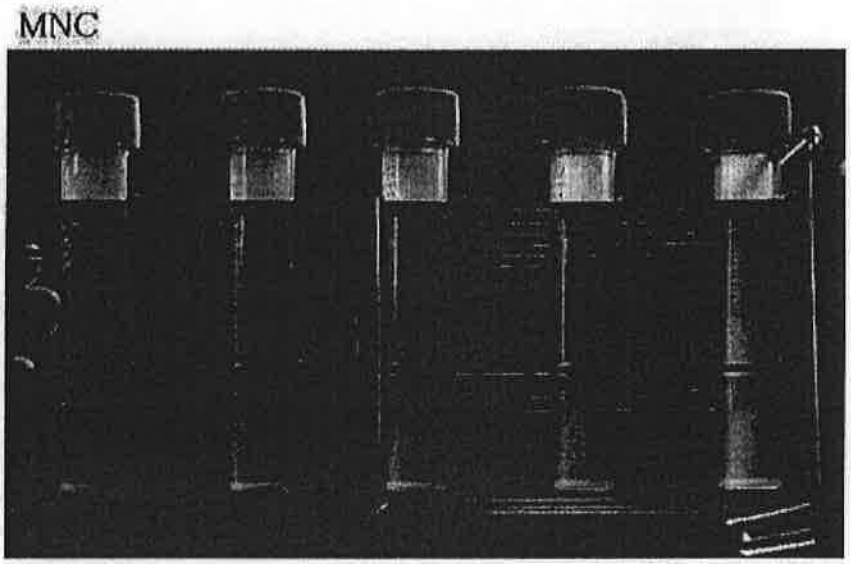


Fig. 23

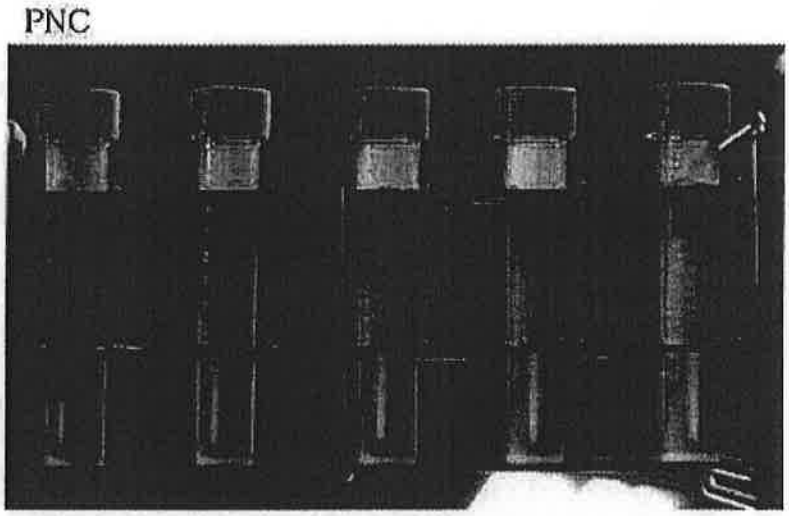


Fig. 24

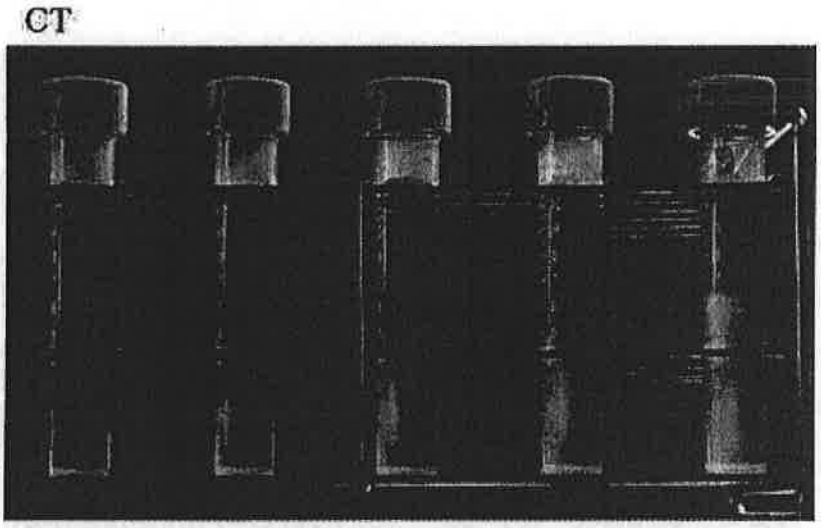


Fig. 25

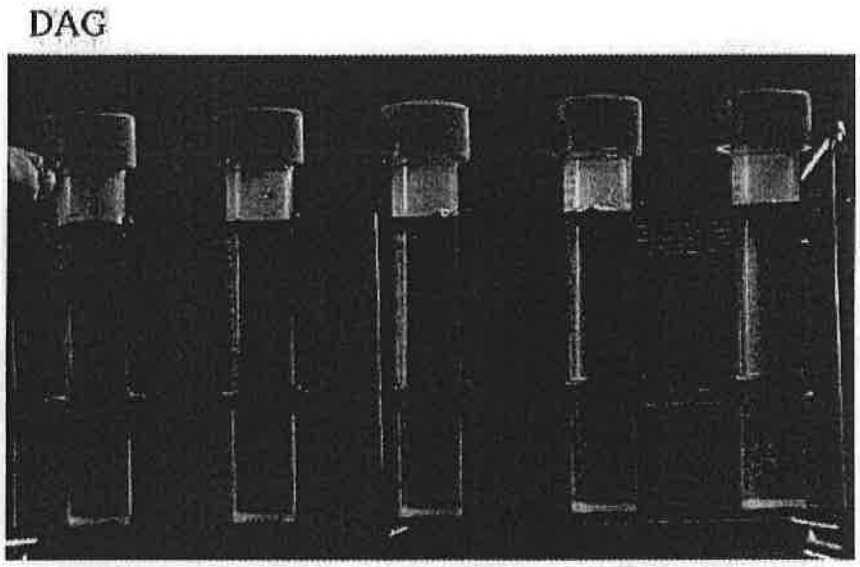


Fig. 26

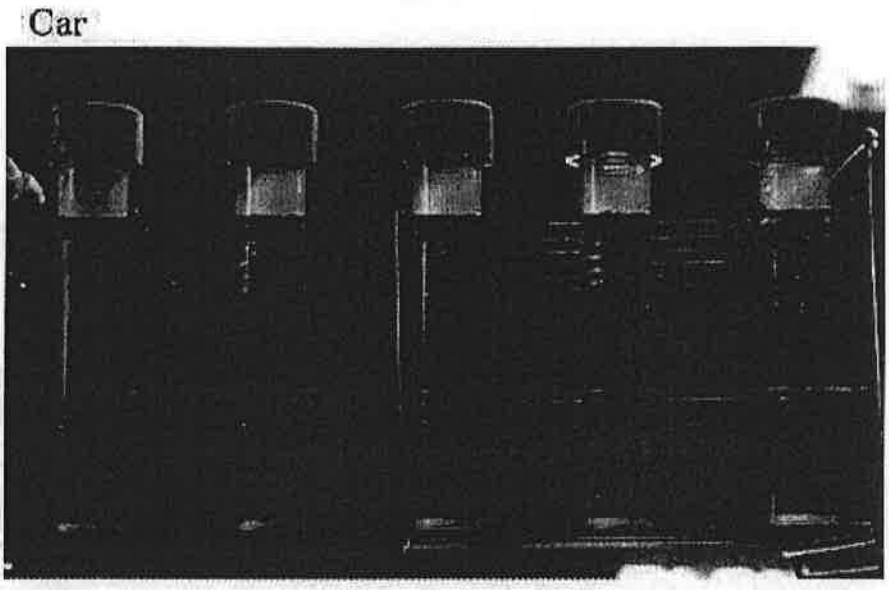


Fig. 27

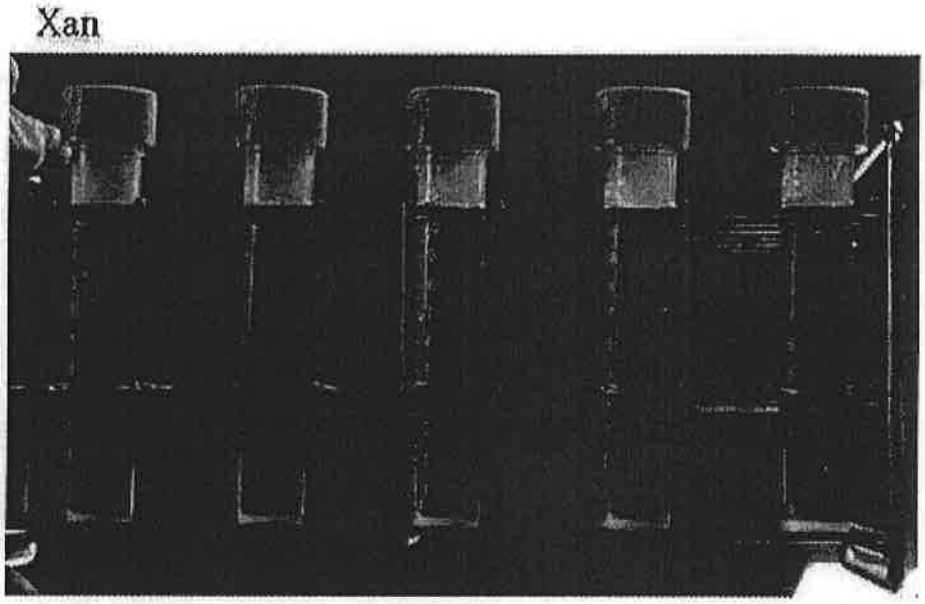


Fig. 28

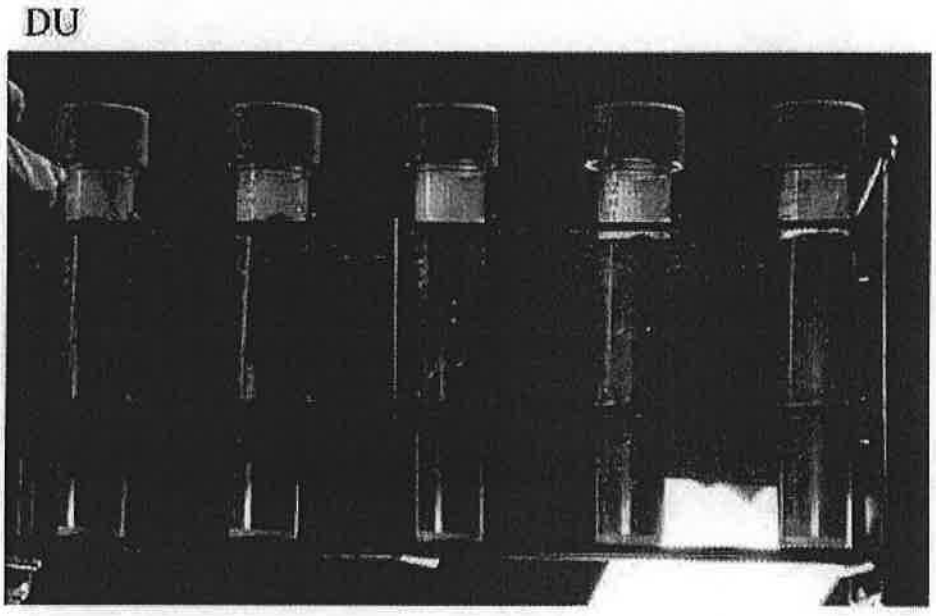


Fig. 29

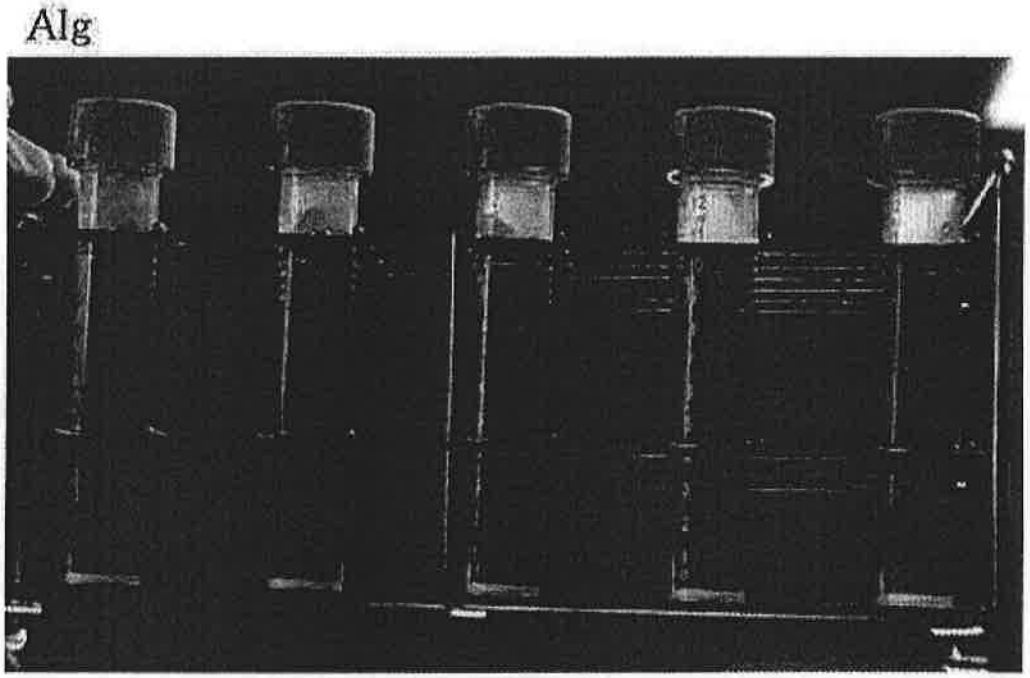

Alg

Fig. 30

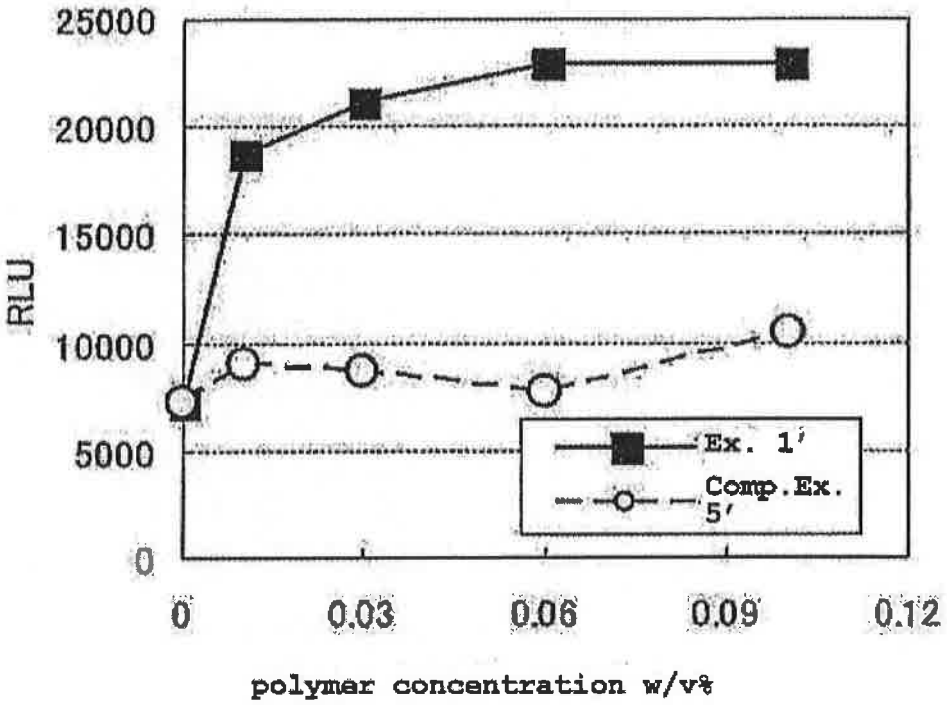

25000
20000
15000
10000
5000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 1'
Comp.Ex. 5'

Fig. 31

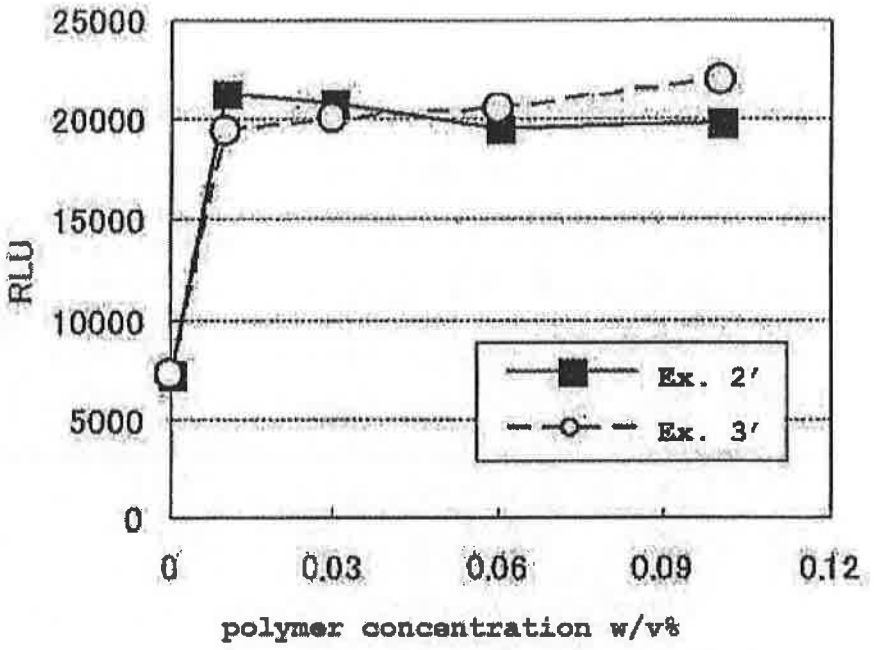

25000
20000
15000
10000
5000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 2′
Ex. 3′

Fig. 32

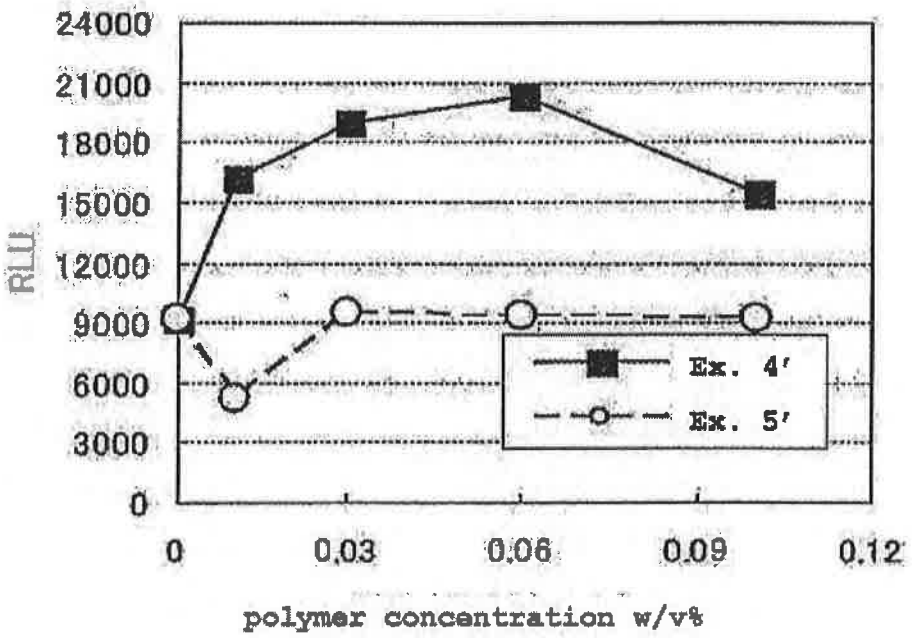

24000
21000
18000
15000
12000
9000
6000
3000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 4′
Ex. 5′

Fig. 33

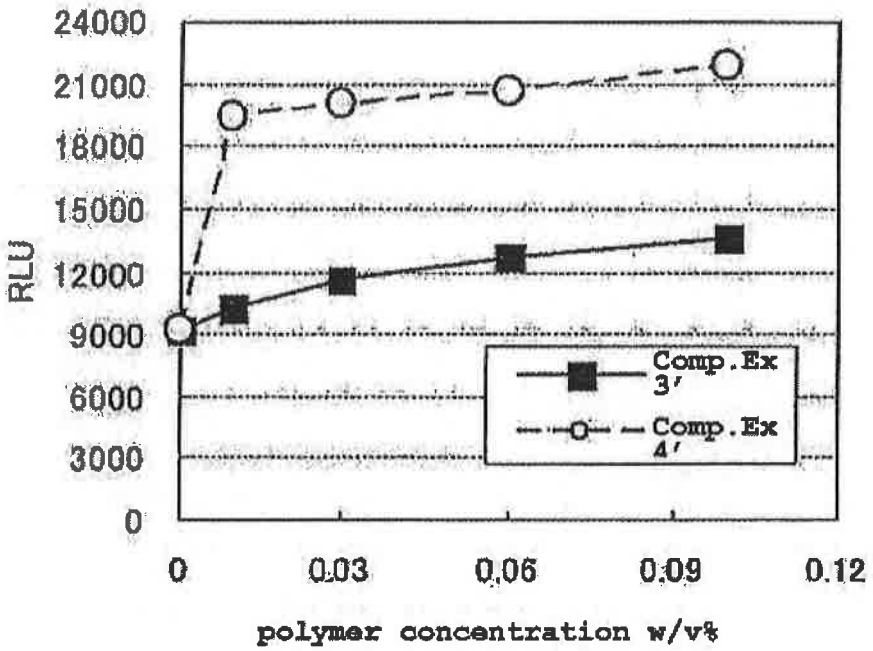

24000
21000
18000
15000
12000
9000
6000
3000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Comp.Ex 3'
Comp.Ex 4'

Fig. 34

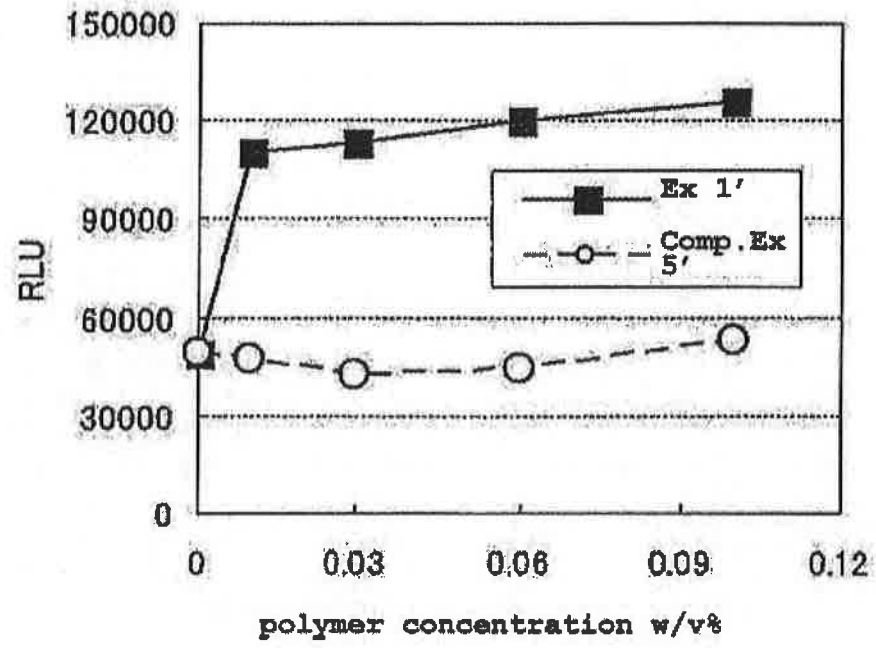

150000
120000
90000
60000
30000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex 1'
Comp.Ex 5'

Fig. 35

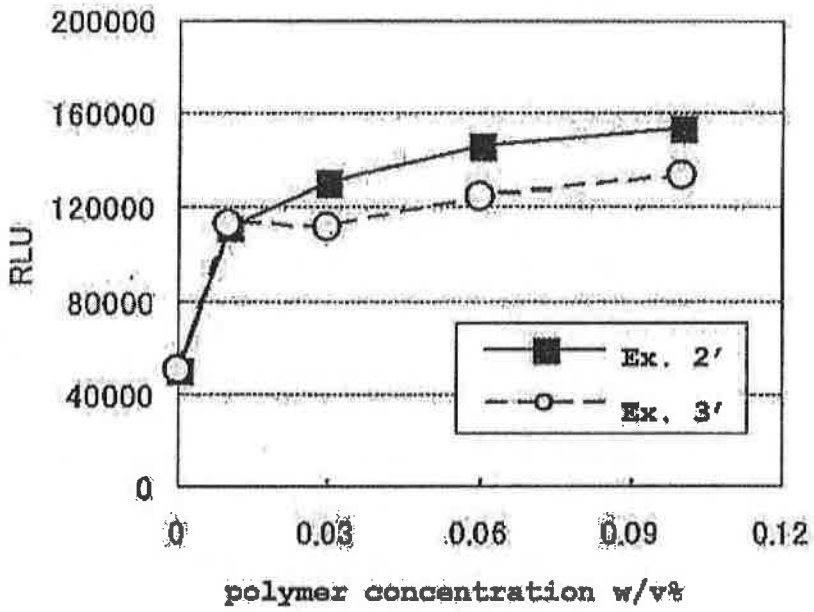

200000
160000
120000
80000
40000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 2'
Ex. 3'

Fig. 36

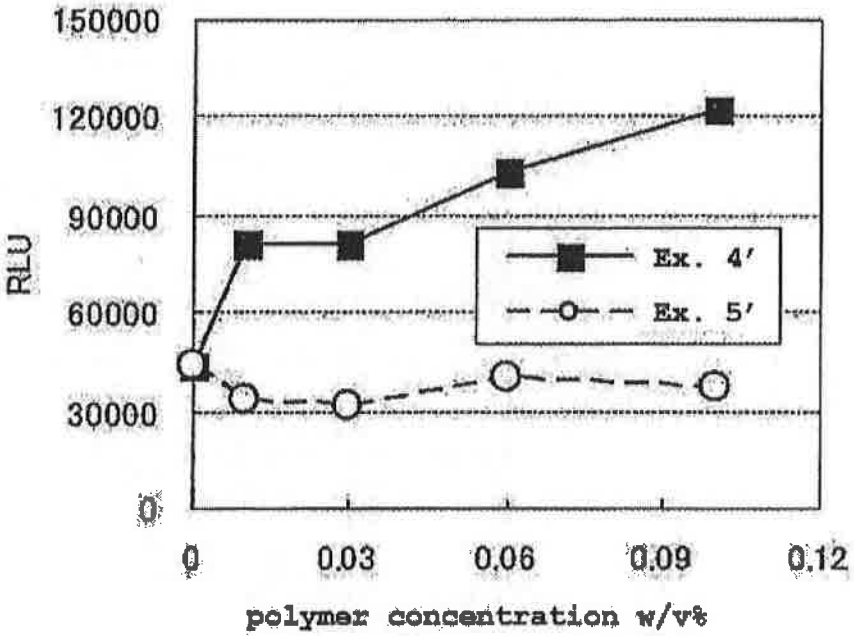

150000
120000
90000
60000
30000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 4'
Ex. 5'

Fig. 37

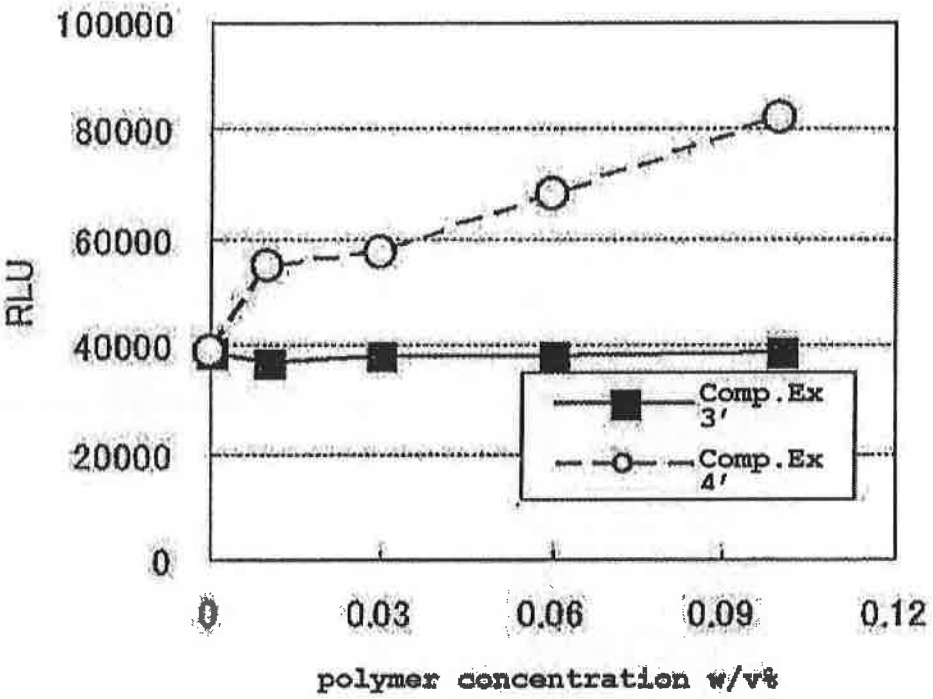

100000
80000
60000
40000
20000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Comp.Ex 3'
Comp.Ex 4'

Fig. 38

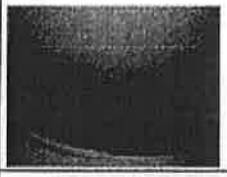
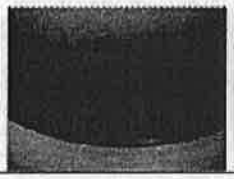
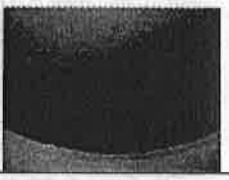
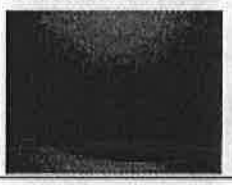
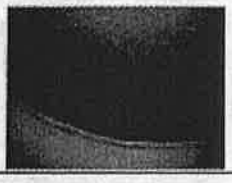
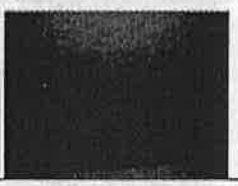
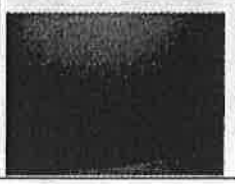
negative control (0 w/v%)				
concent-ration	0.01 w/v%	0.03 w/v%	0.06 w/v%	0.1 w/v%
Example 1′ MC				
Example 2′ PC				
Example 3′ CT				
Example 4′ DAG				
Example 5′ Car				
Compara-tive Example 3′ Xan				
Compara-tive Example 4′ DU				
Compara-tive Example 5′ Alg				

Fig. 39

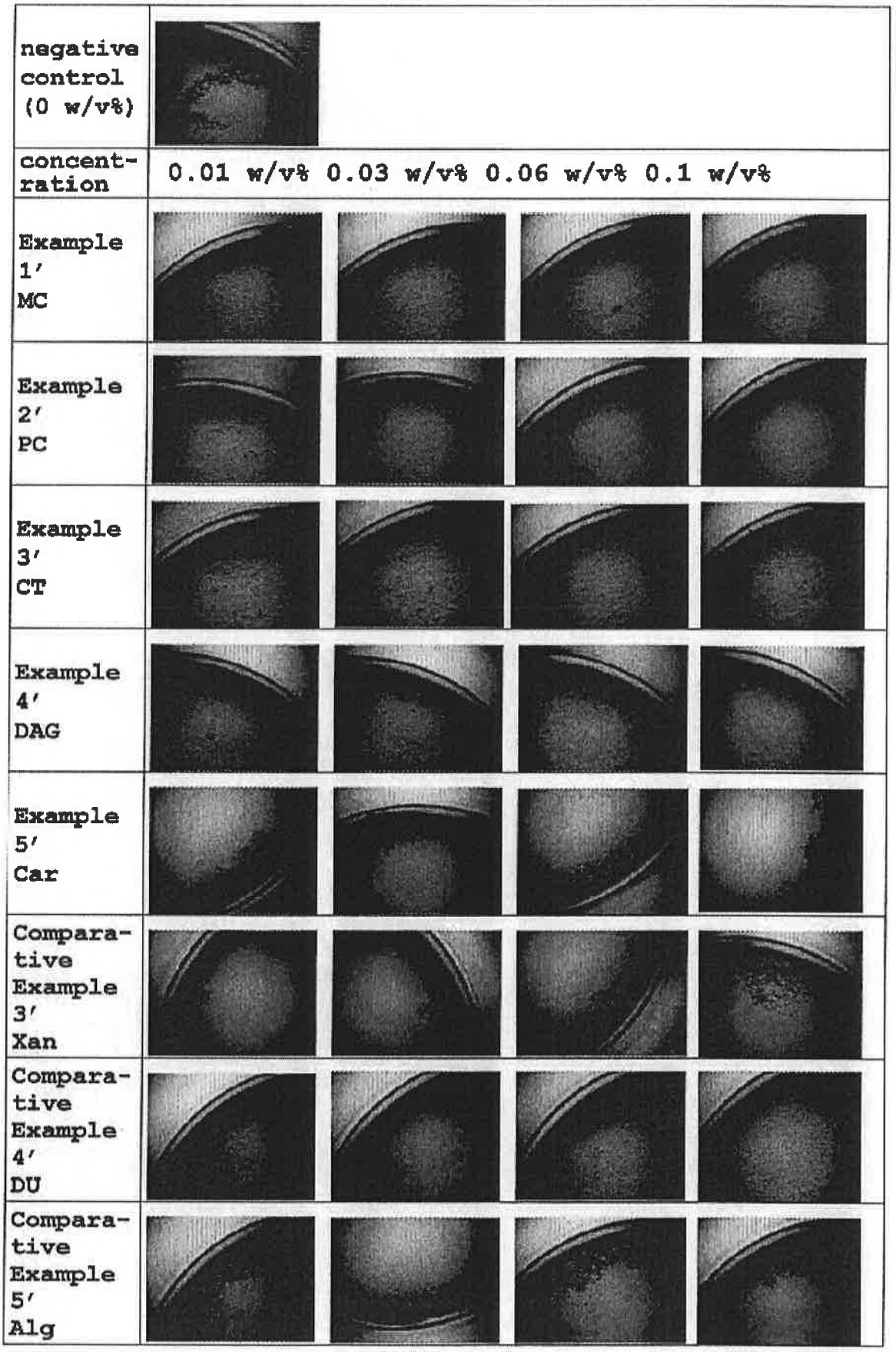
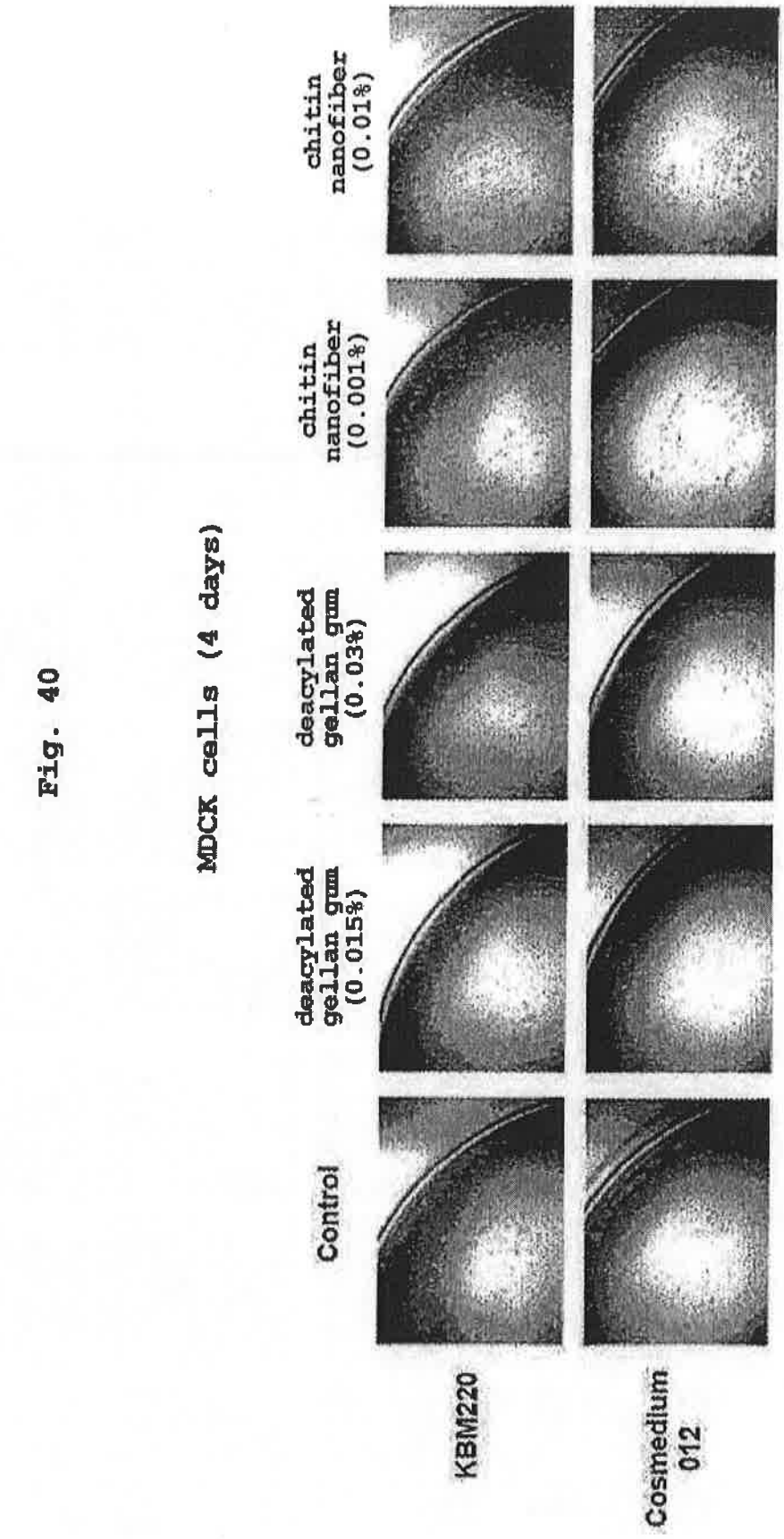

negative control (0 w/v%)
concent-ration
0.01 w/v%
0.03 w/v%
0.06 w/v%
0.1 w/v%
Example 1' MC
Example 2' PC
Example 3' CT
Example 4' DAG
Example 5' Car
Compara-tive Example 3' Xan
Compara-tive Example 4' DU
Compara-tive Example 5' Alg

Fig. 40


MDCK cells (4 days)
Control
deacylated gellan gum (0.015%)
deacylated gellan gum (0.03%)
chitin nanofiber (0.001%)
chitin nanofiber (0.01%)
KBM220
Cosmedium 012