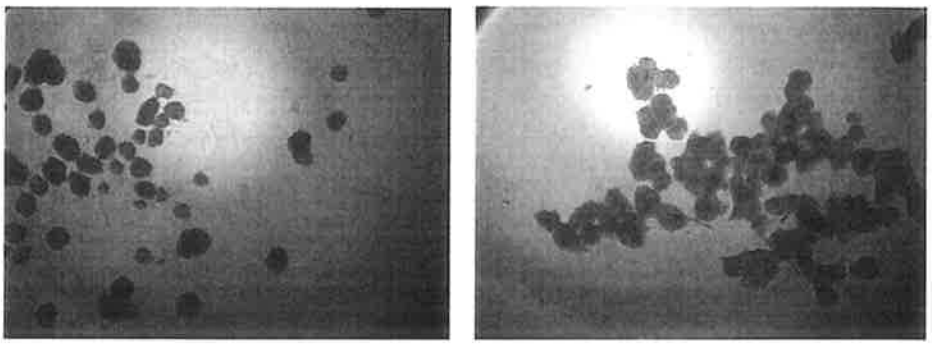
Fig. 1



Fig. 2



Fig. 3



with deacylated gellan gum without deacylated gellan gum

Fig. 4

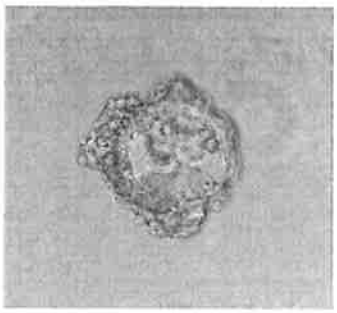


Fig. 5



xanthan gum
(0.15%)



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

Fig. 6

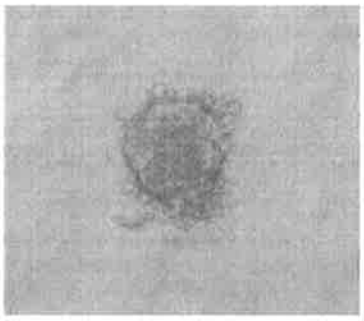


Fig. 7

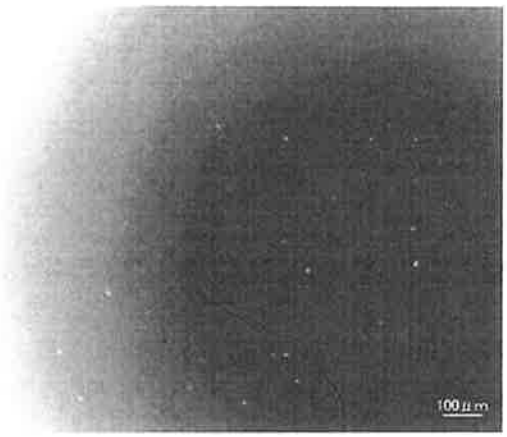


Fig. 8

HepG2 cell sphere

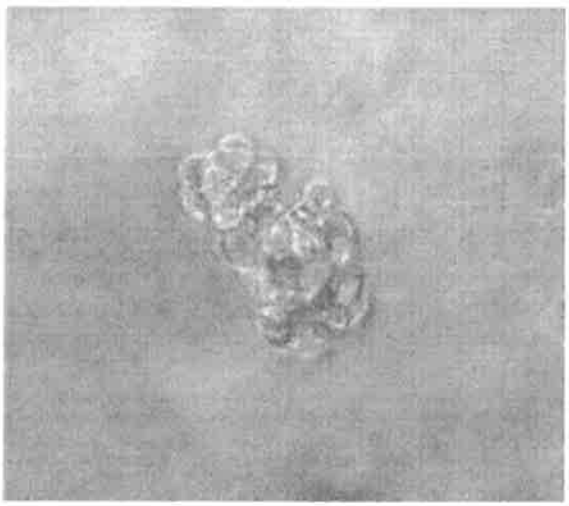


Fig. 9

laminin-coated GEM

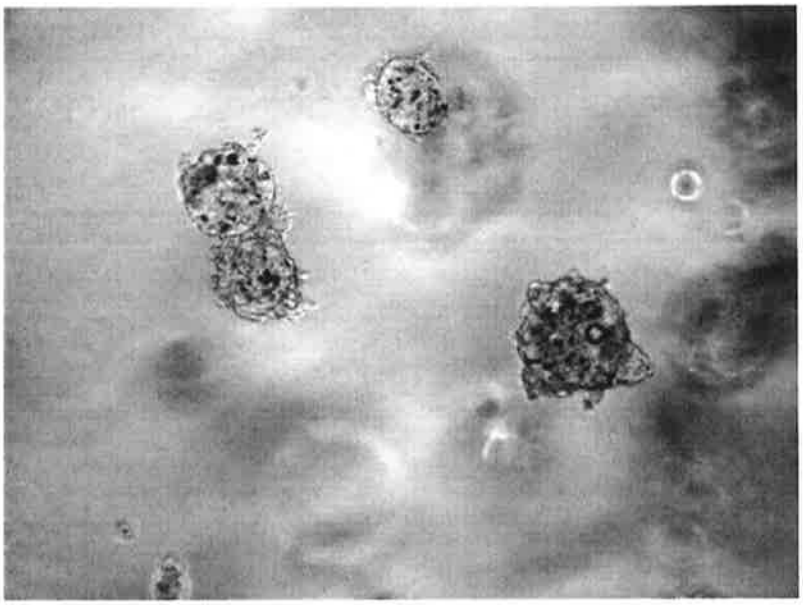


Fig. 10

alginic acid beads

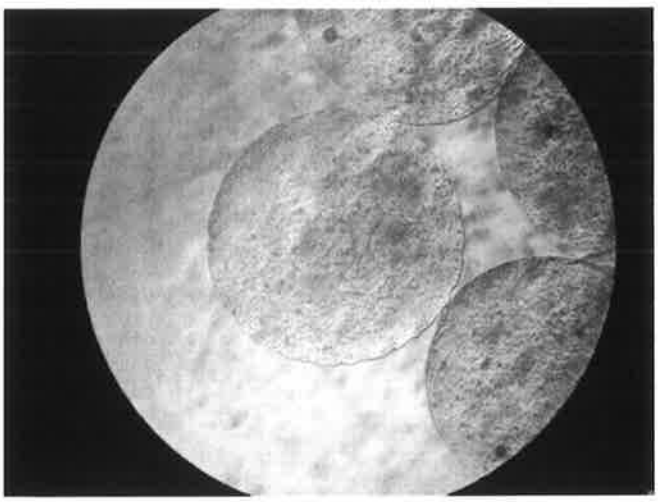


Fig. 11

collagen gel capsule

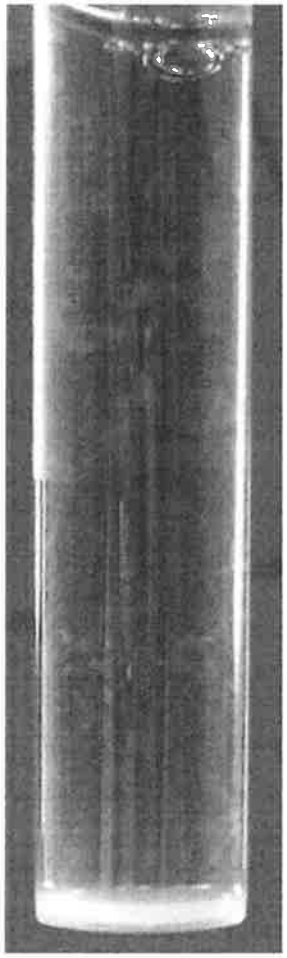


Fig. 12

suspension culture of rice-derived callus

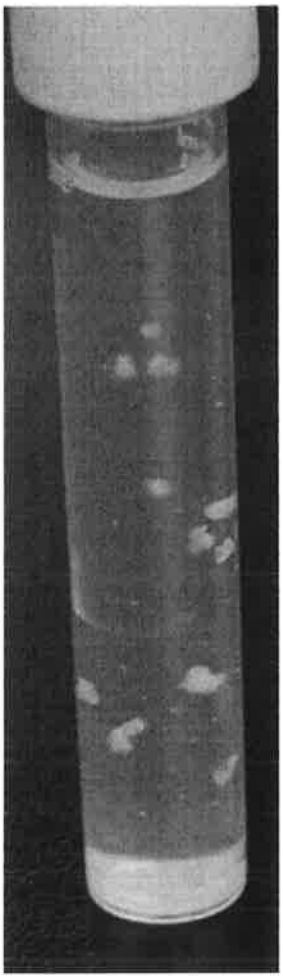


Fig. 13

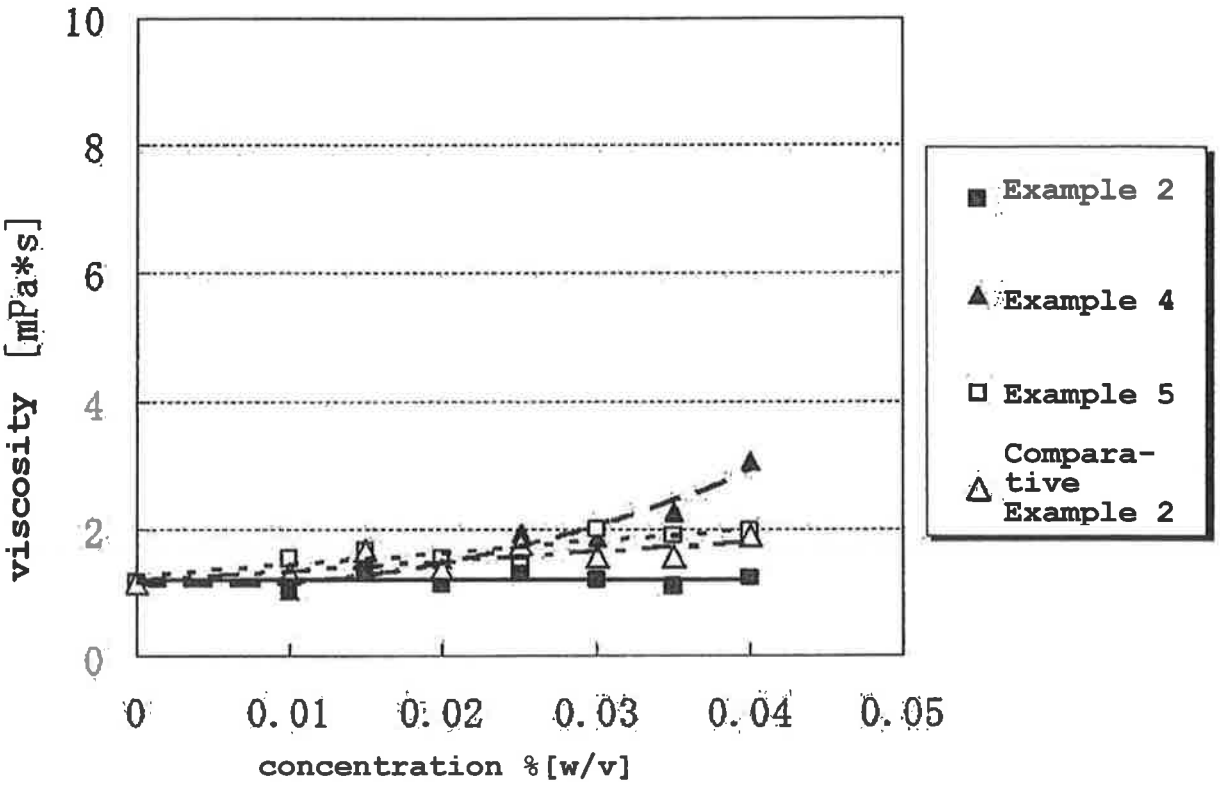

10
8
6
4
2
0
viscosity [mPa*s]
0
0.01
0.02
0.03
0.04
0.05
concentration %[w/v]
Example 2
Example 4
Example 5
Compara-
tive
Example 2

Fig. 14

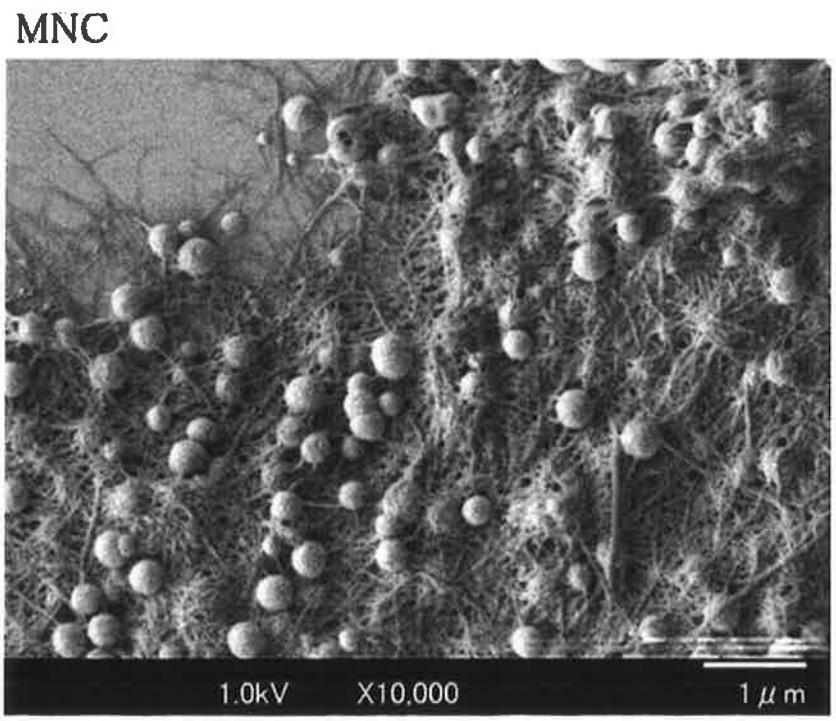

MNC
1.0kV
X10,000
1 μm

Fig. 15

PNC

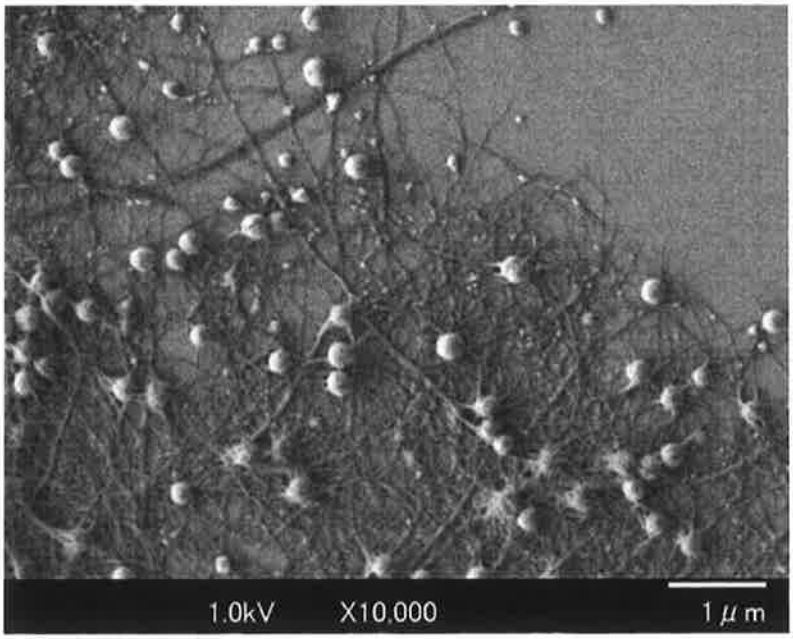


Fig. 16

CT

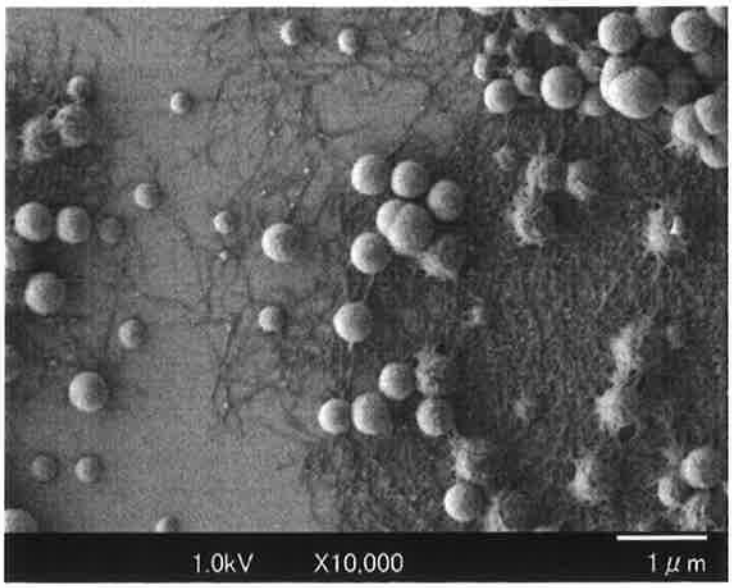


Fig. 17

DAG

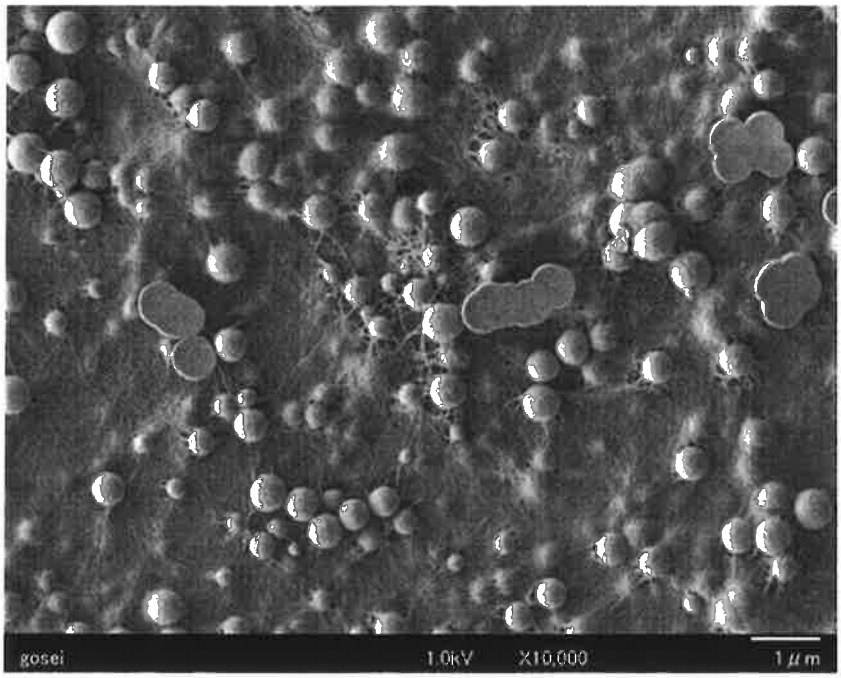


Fig. 18

Car dried at room temperature

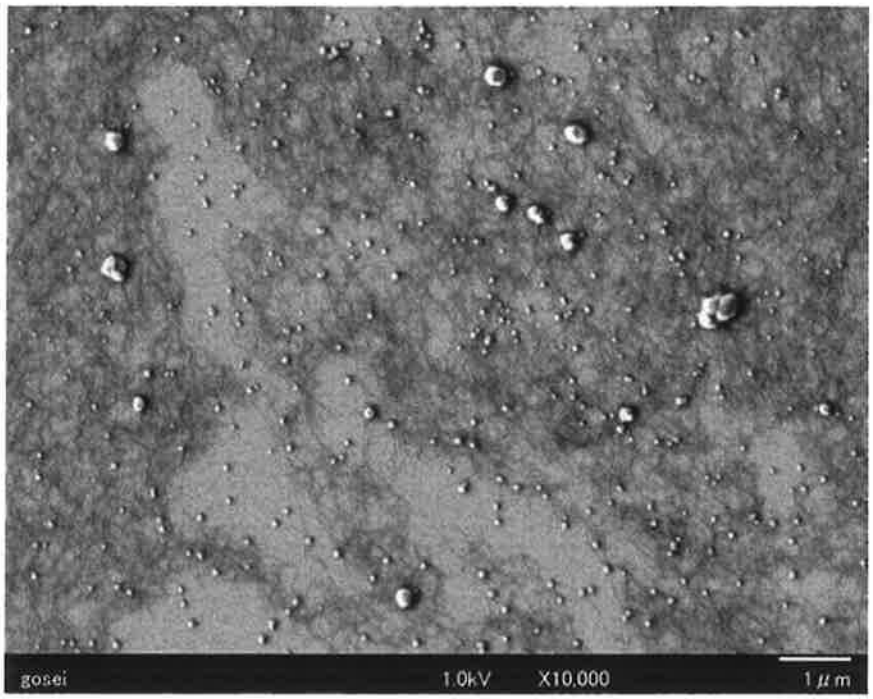


Fig. 19

Car dried at 110°C

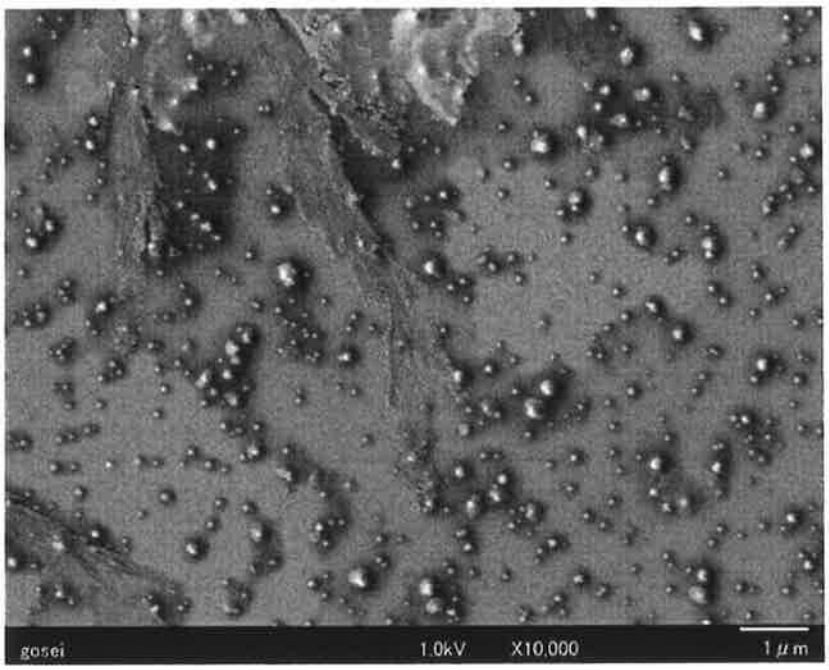


Fig. 20

Xan

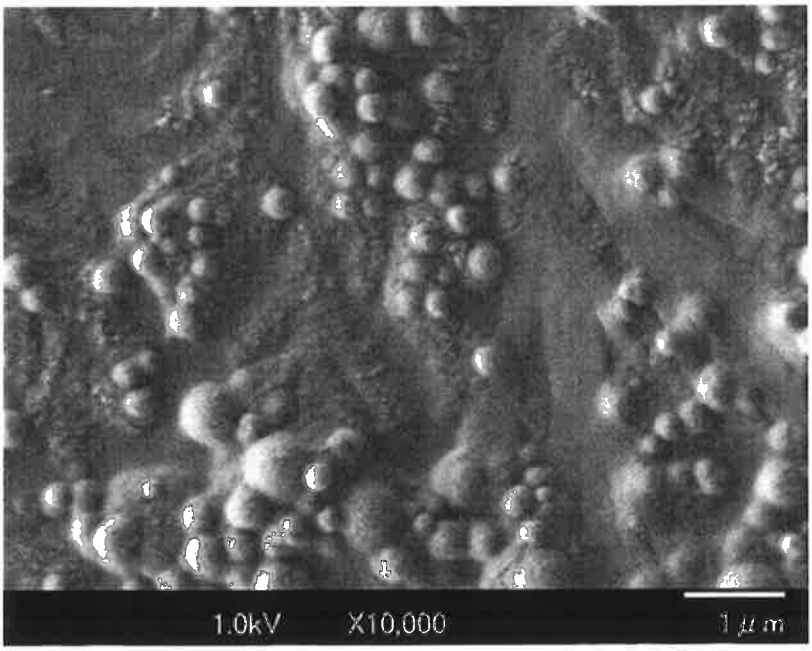


Fig. 21

DU

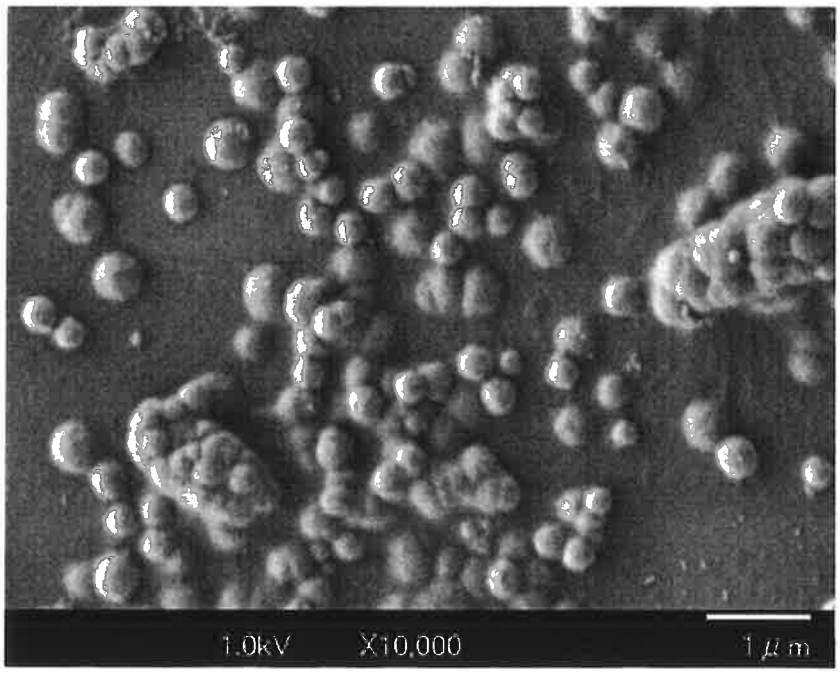


Fig. 22

MNC

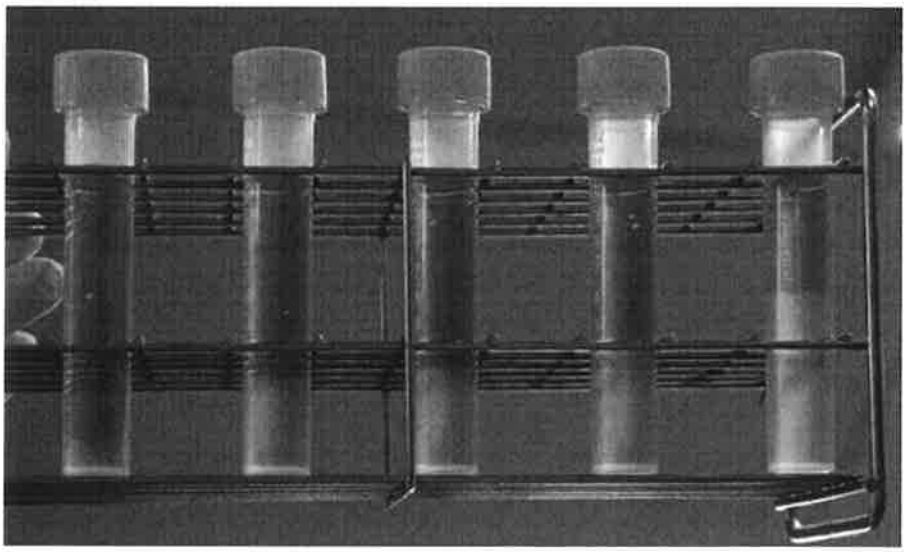


Fig. 23

PNC

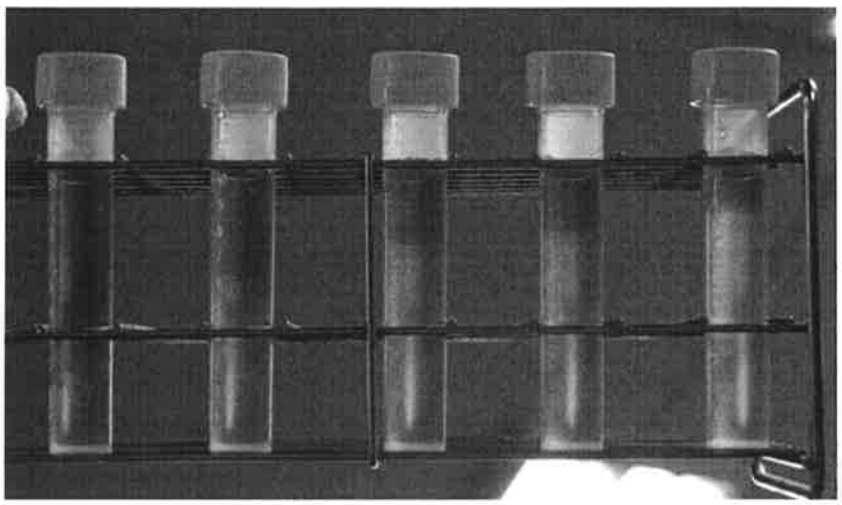


Fig. 24

CT

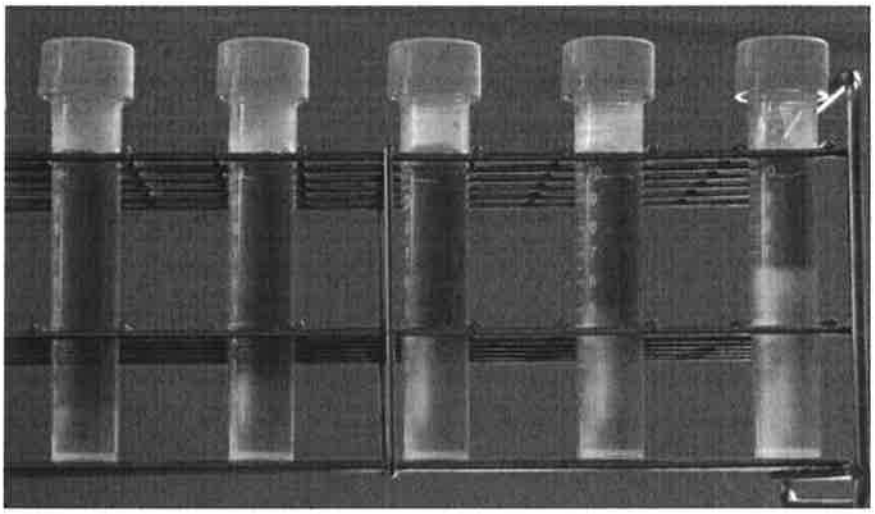


Fig. 25

DAG

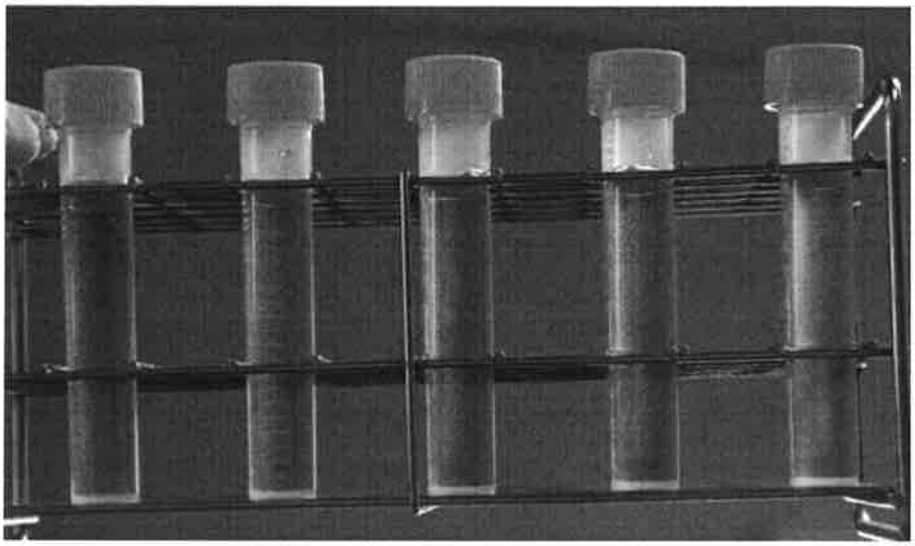


Fig. 26

Car

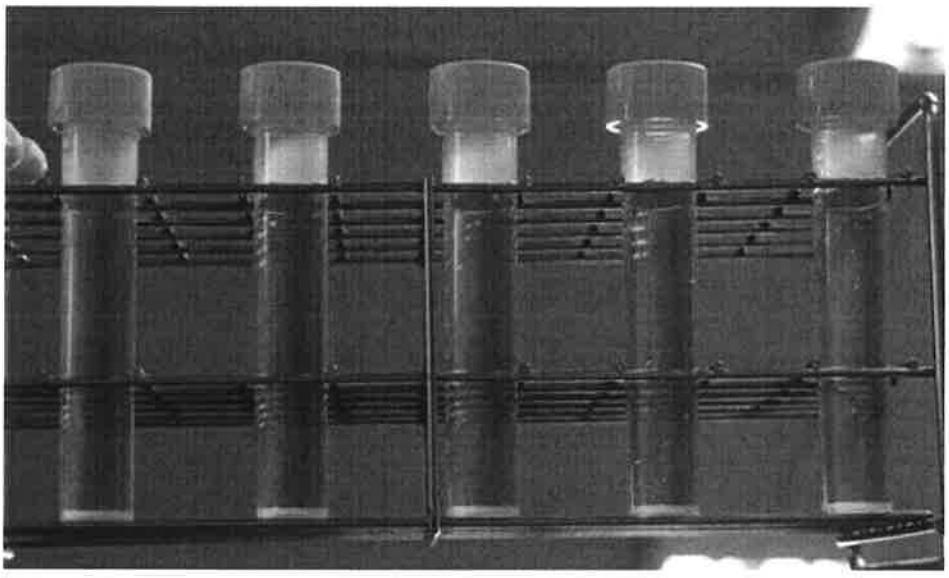


Fig. 27

Xan

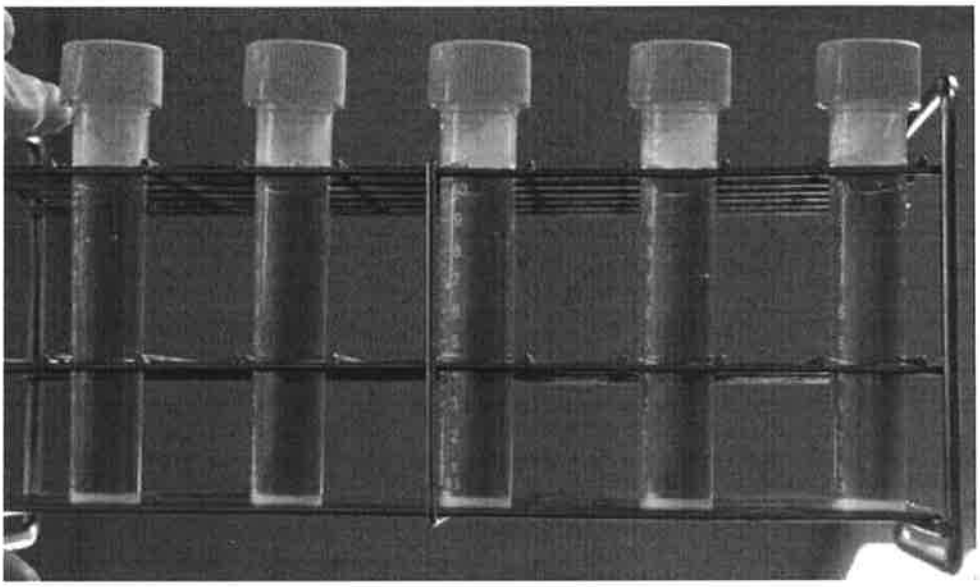


Fig. 28

DU

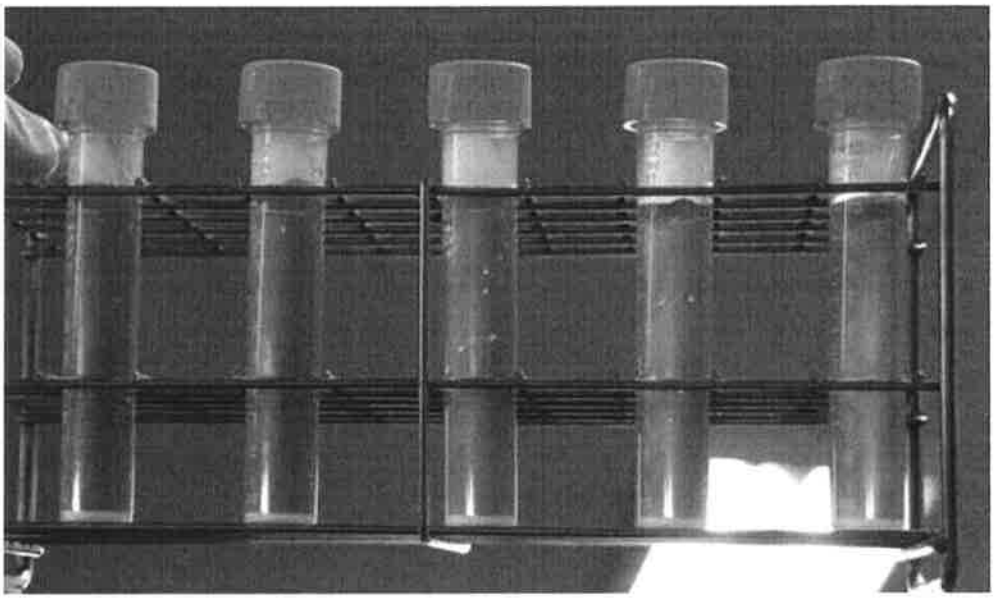


Fig. 29

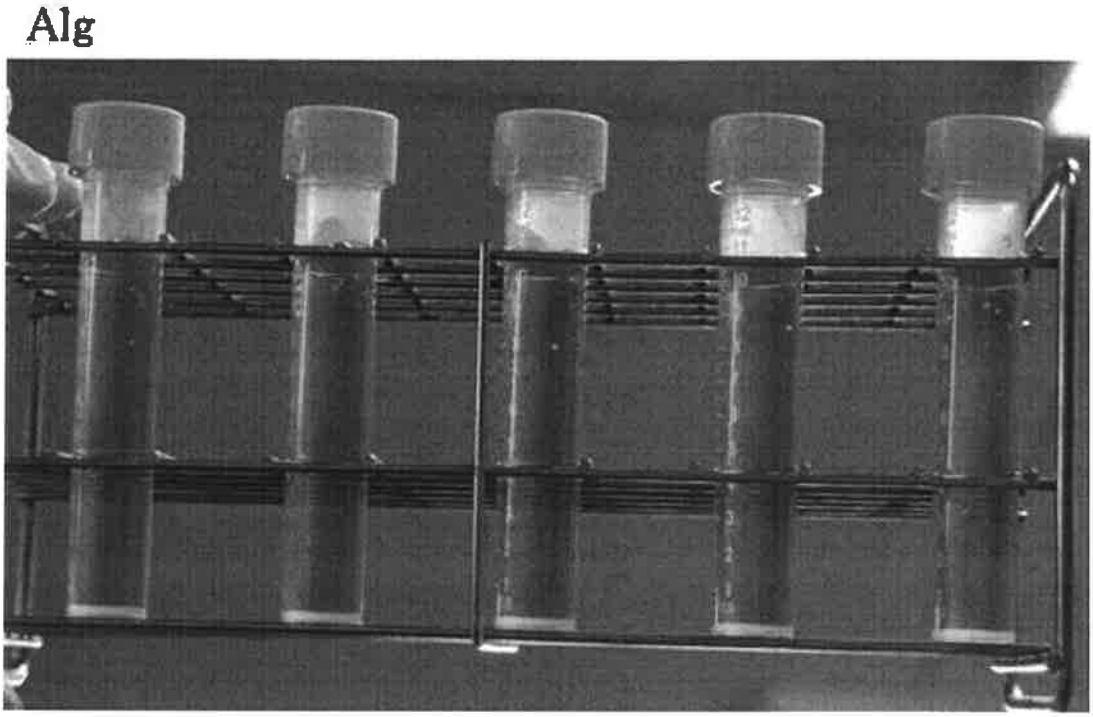

Alg

Fig. 30

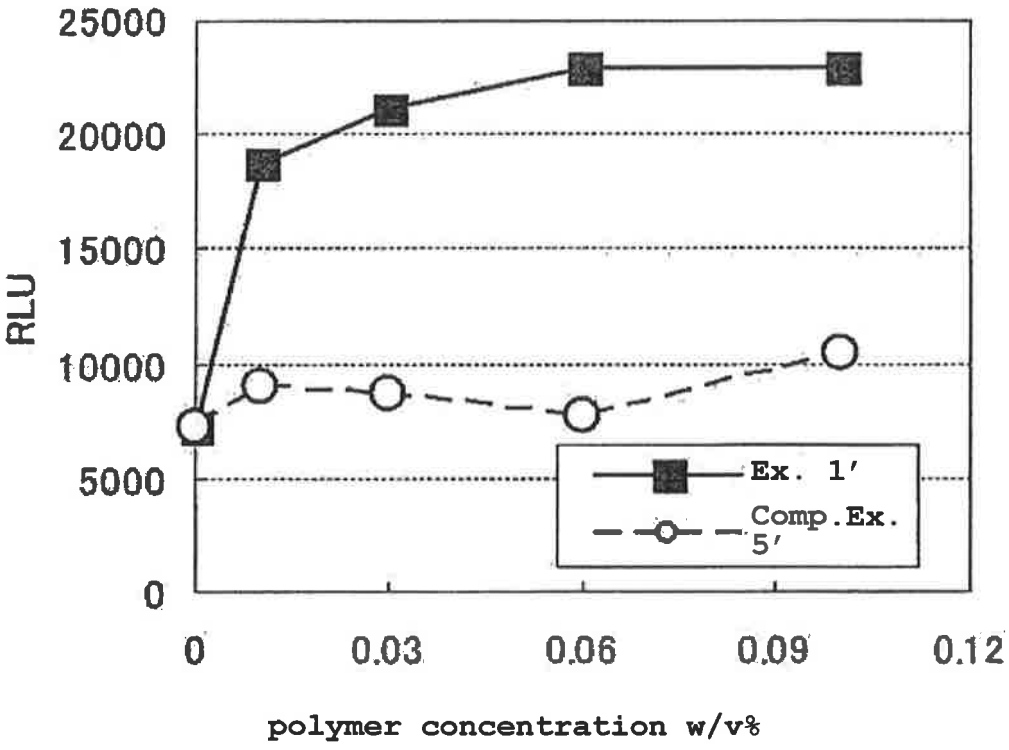

25000
20000
15000
10000
5000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 1'
Comp.Ex. 5'

Fig. 31

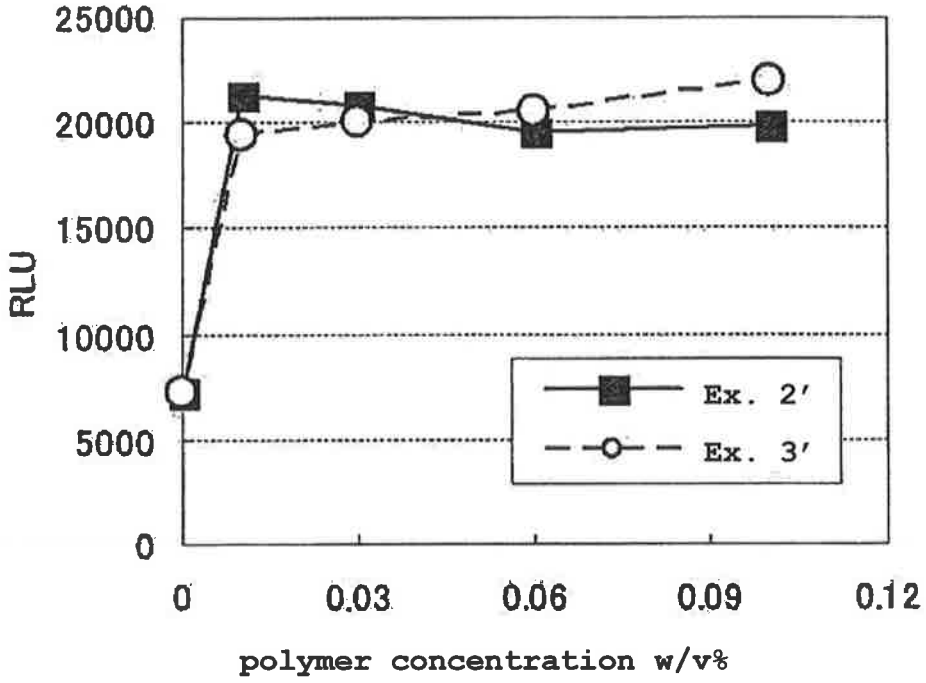

25000
20000
15000
10000
5000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 2′
Ex. 3′

Fig. 32

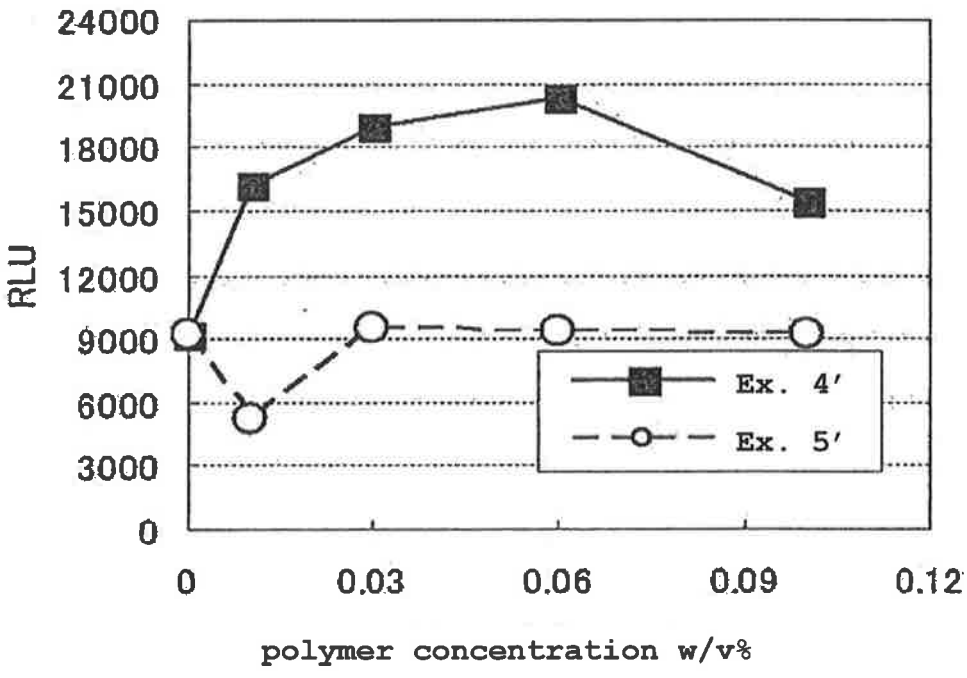

24000
21000
18000
15000
12000
9000
6000
3000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 4′
Ex. 5′

Fig. 33

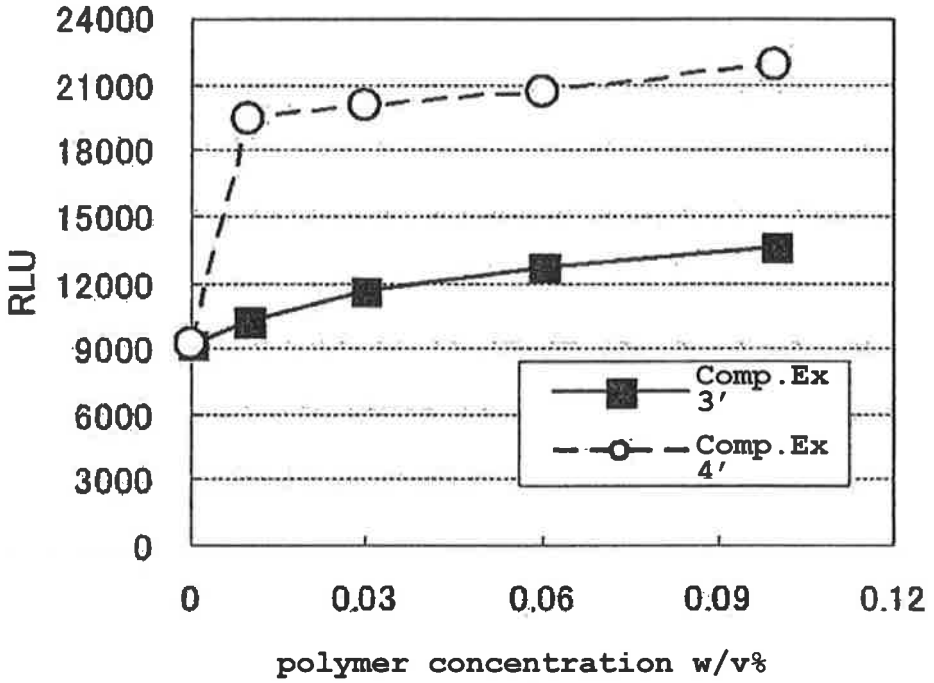

24000
21000
18000
15000
12000
9000
6000
3000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Comp.Ex 3′
Comp.Ex 4′

Fig. 34

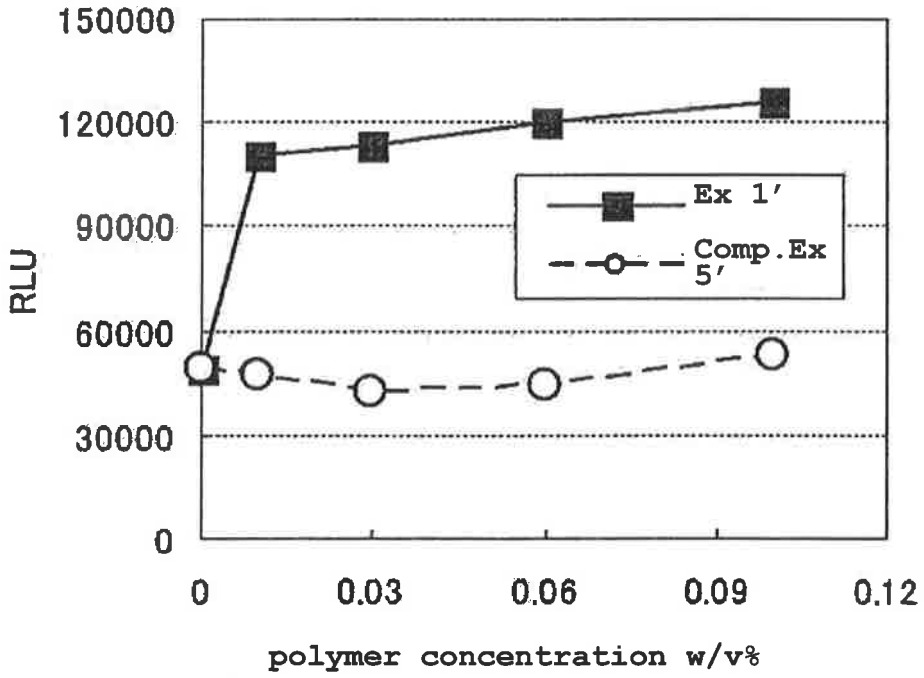

150000
120000
90000
60000
30000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex 1′
Comp.Ex 5′

Fig. 35

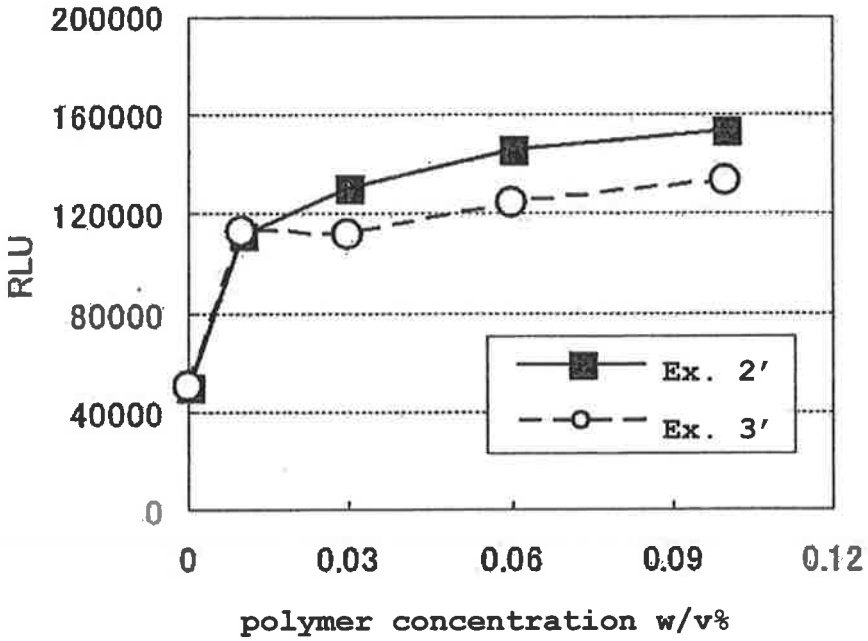

200000
160000
120000
80000
40000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 2′
Ex. 3′

Fig. 36

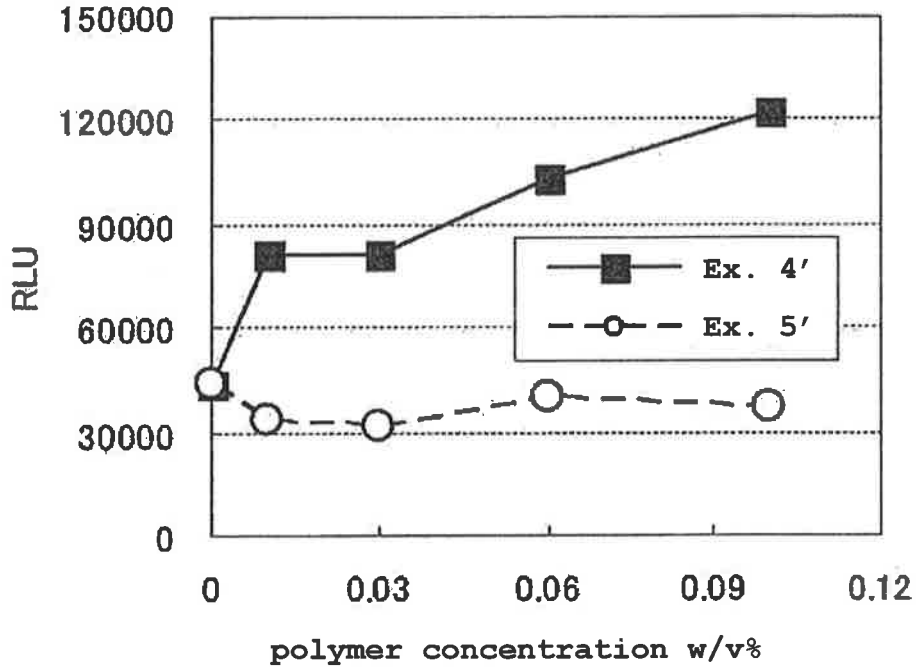

150000
120000
90000
60000
30000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Ex. 4′
Ex. 5′

Fig. 37

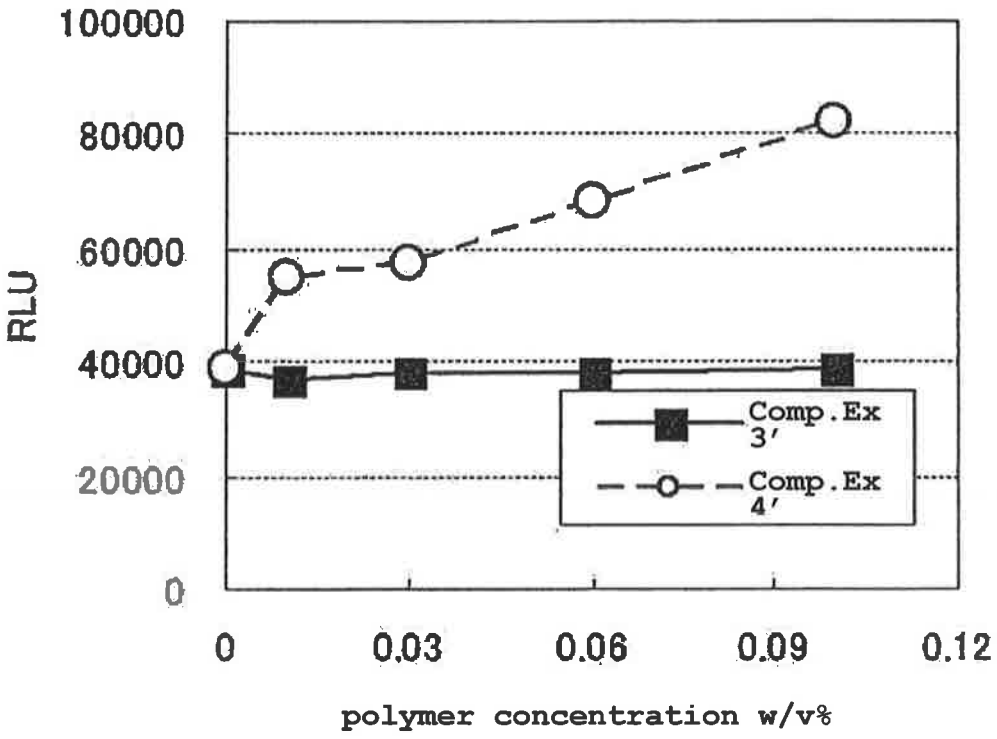

100000
80000
60000
40000
20000
0
RLU
0
0.03
0.06
0.09
0.12
polymer concentration w/v%
Comp.Ex 3'
Comp.Ex 4'

Fig. 38

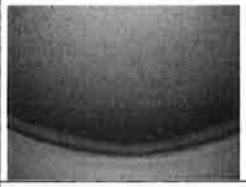
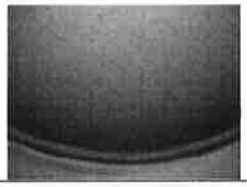
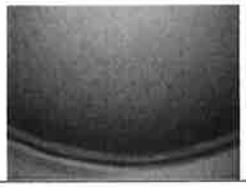
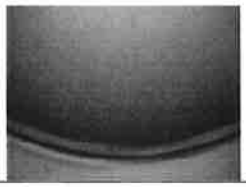
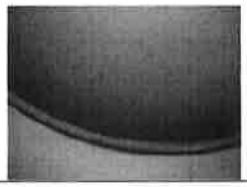
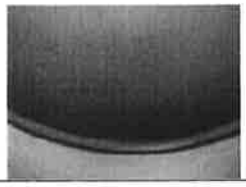
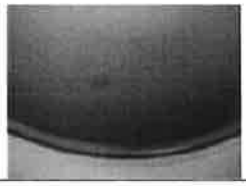
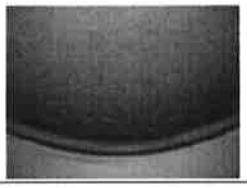
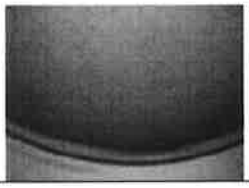
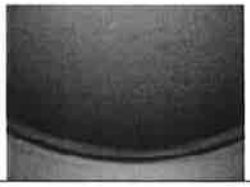
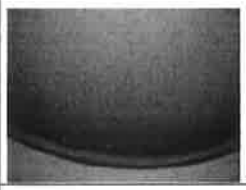
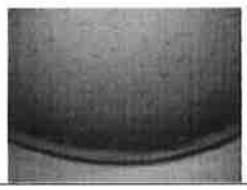
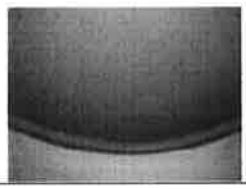
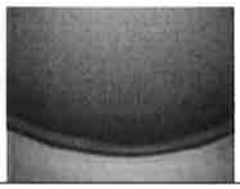
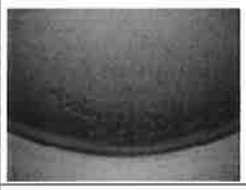
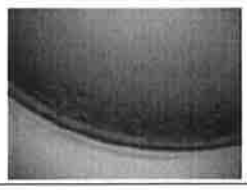
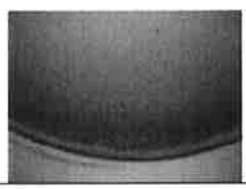
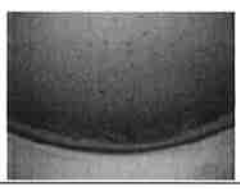
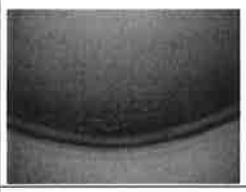
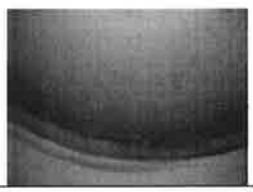
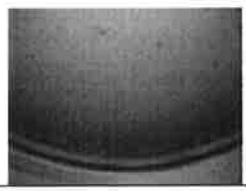
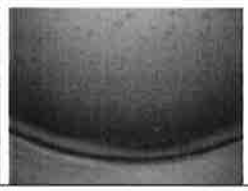
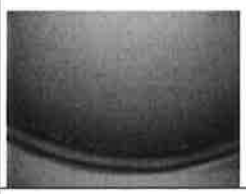
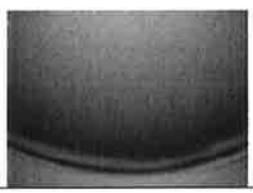
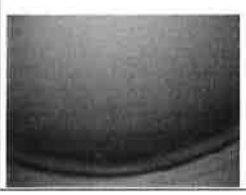
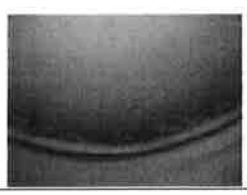
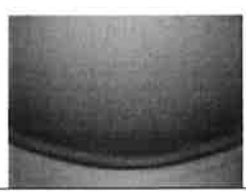
negative control (0 w/v%)				
concent-ration	0.01 w/v%	0.03 w/v%	0.06 w/v%	0.1 w/v%
Example 1′ MC				
Example 2′ PC				
Example 3′ CT				
Example 4′ DAG				
Example 5′ Car				
Compara-tive Example 3′ Xan				
Compara-tive Example 4′ DU				
Compara-tive Example 5′ Alg				

Fig. 39

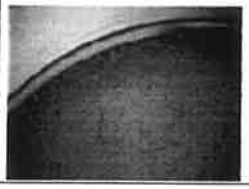
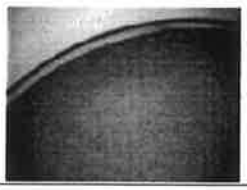
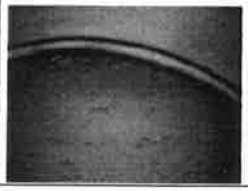
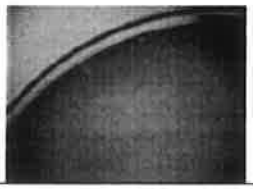
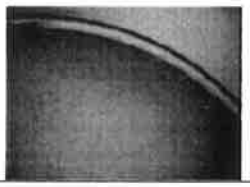
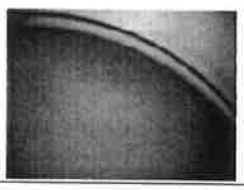
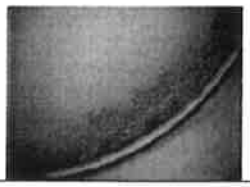
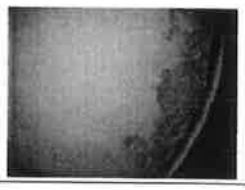
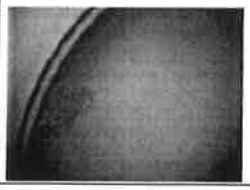
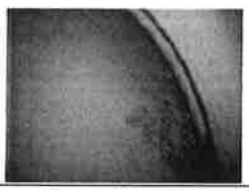
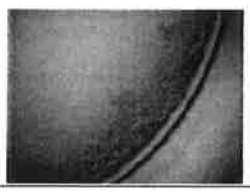
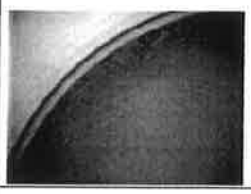
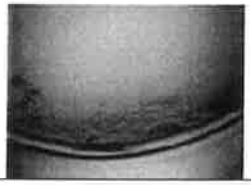
negative control (0 w/v%)				
concent-ration	0.01 w/v%	0.03 w/v%	0.06 w/v%	0.1 w/v%
Example 1′ MC				
Example 2′ PC				
Example 3′ CT				
Example 4′ DAG				
Example 5′ Car				
Compara-tive Example 3′ Xan				
Compara-tive Example 4′ DU				
Compara-tive Example 5′ Alg				

Fig. 40

MDCK cells (4 days)

