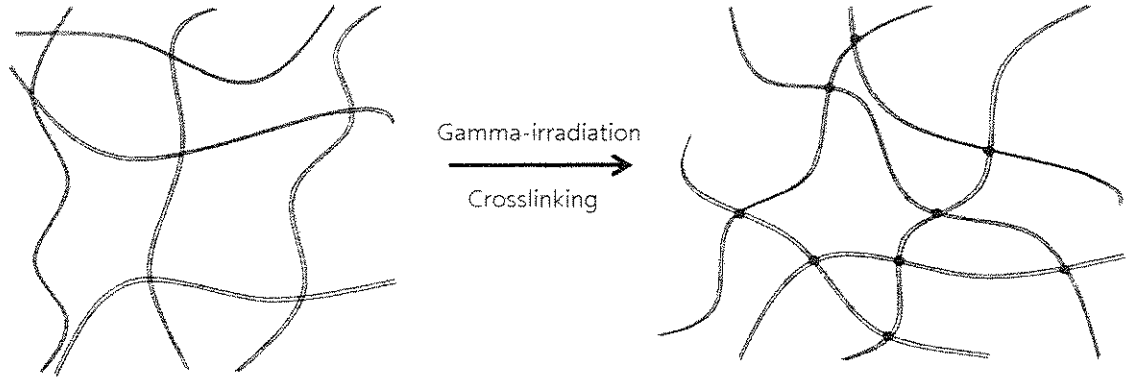
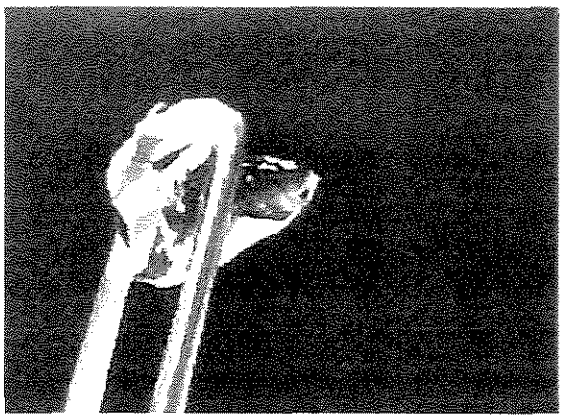
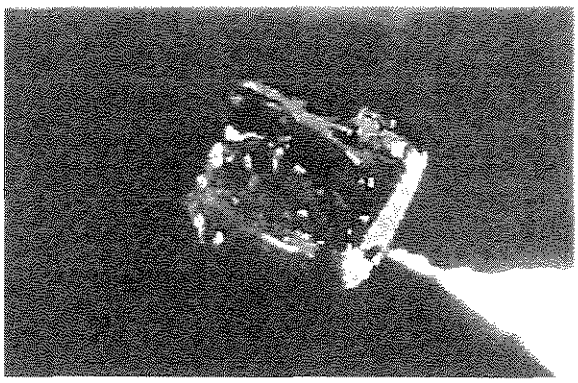
[Fig.1]



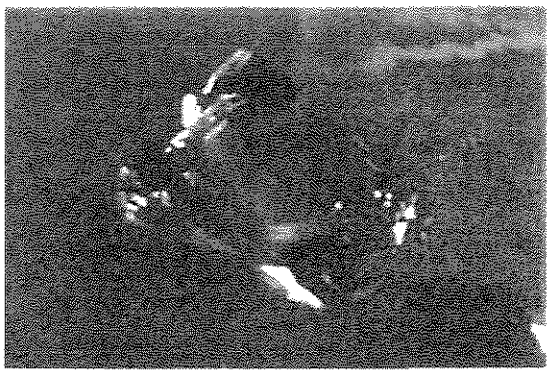
[Fig.2]



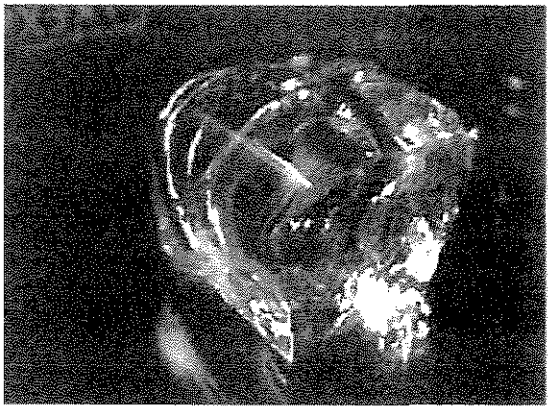
[Fig.3]



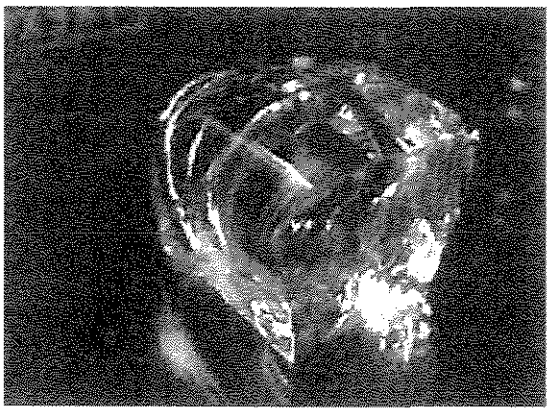
[Fig.4]



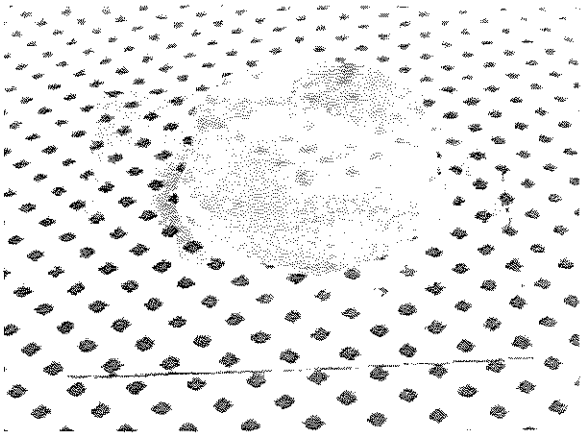
[Fig.5]



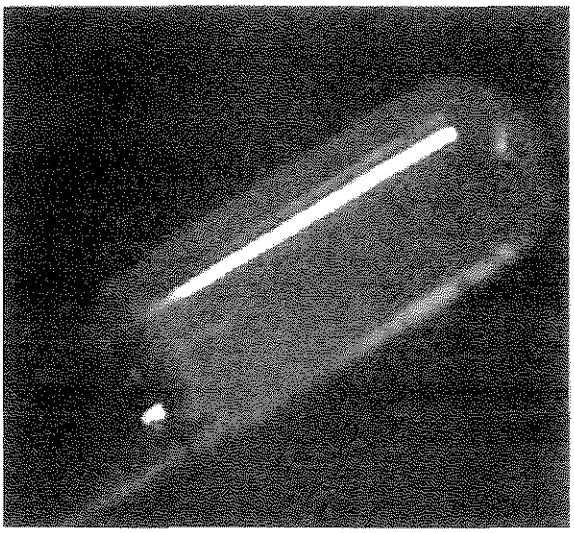
[Fig.6]



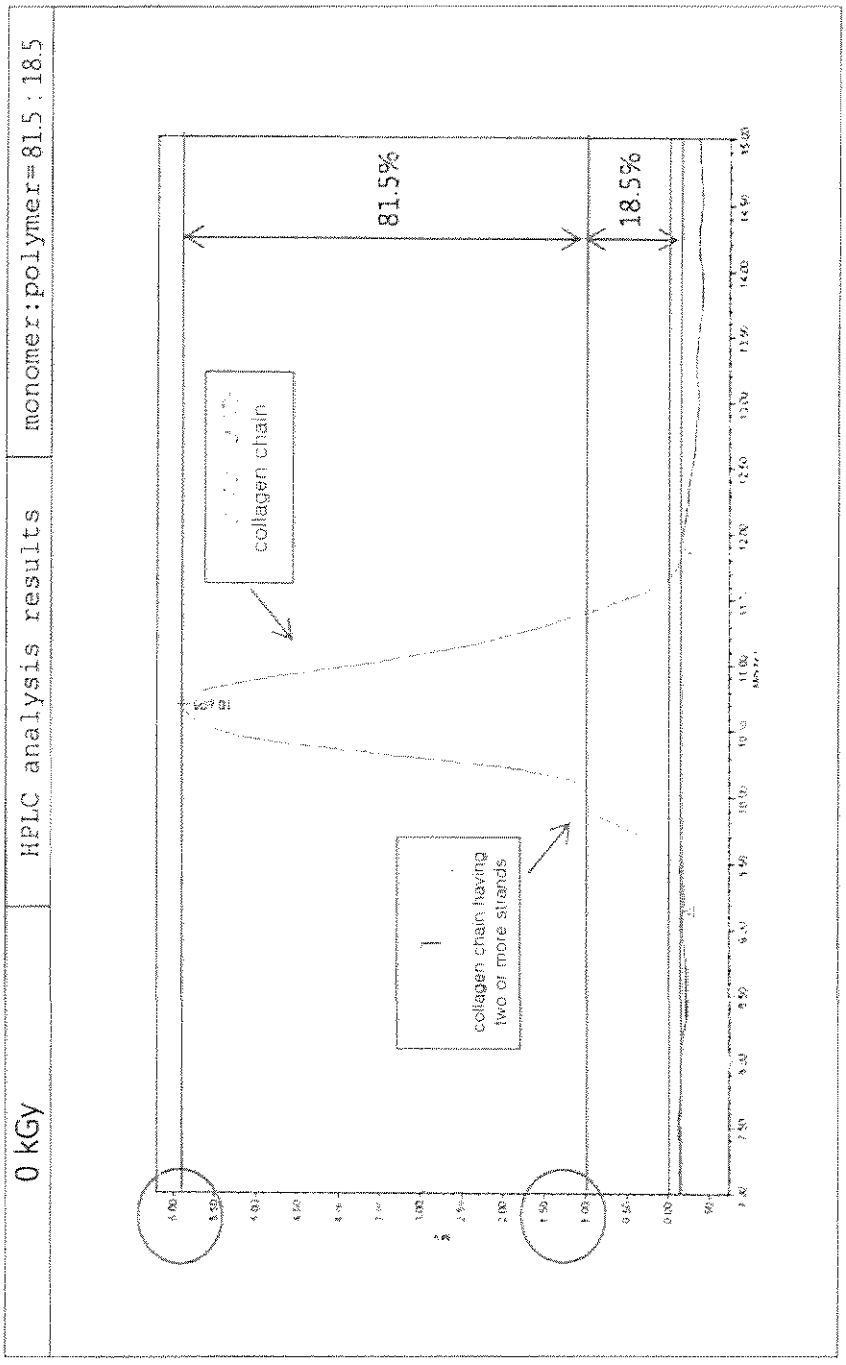
[Fig.7]



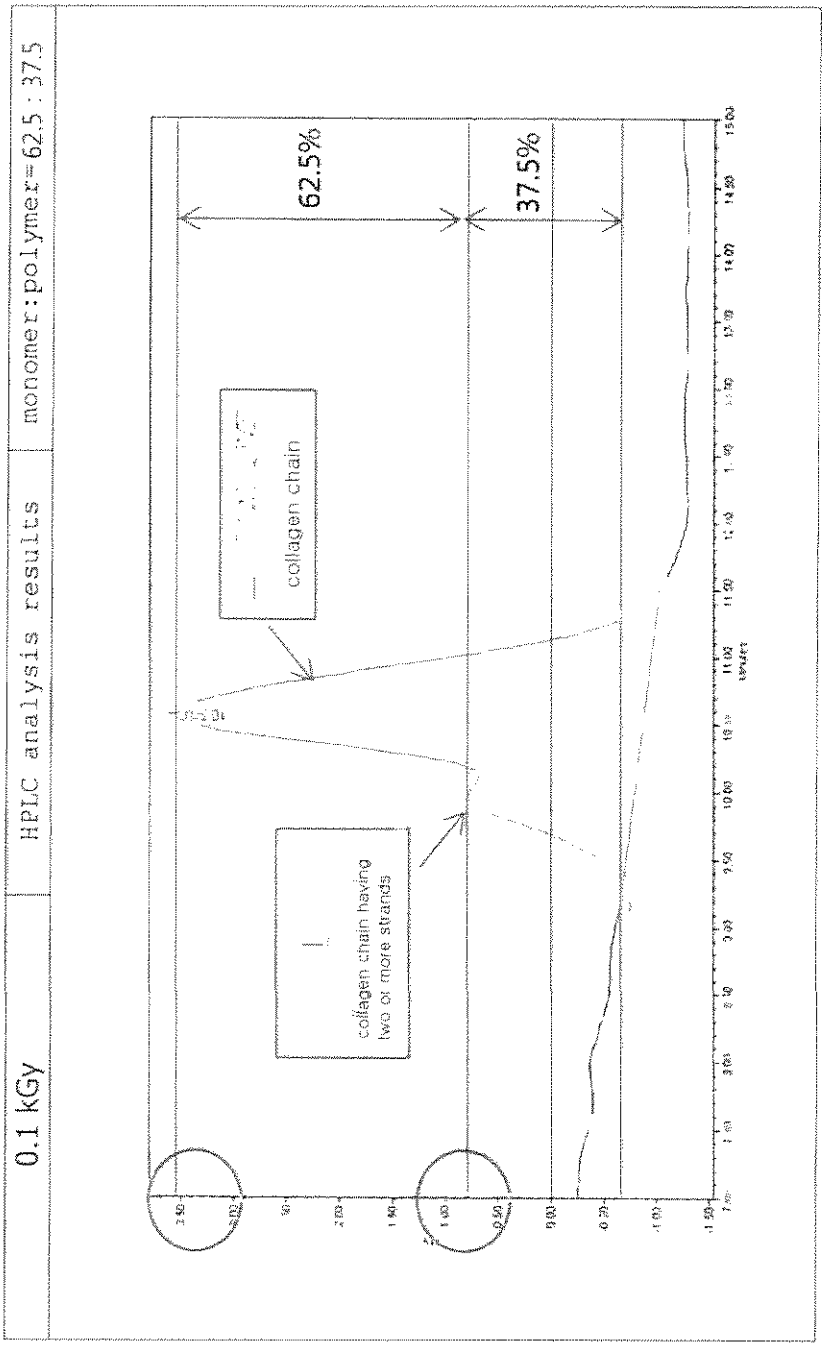
[Fig.8]



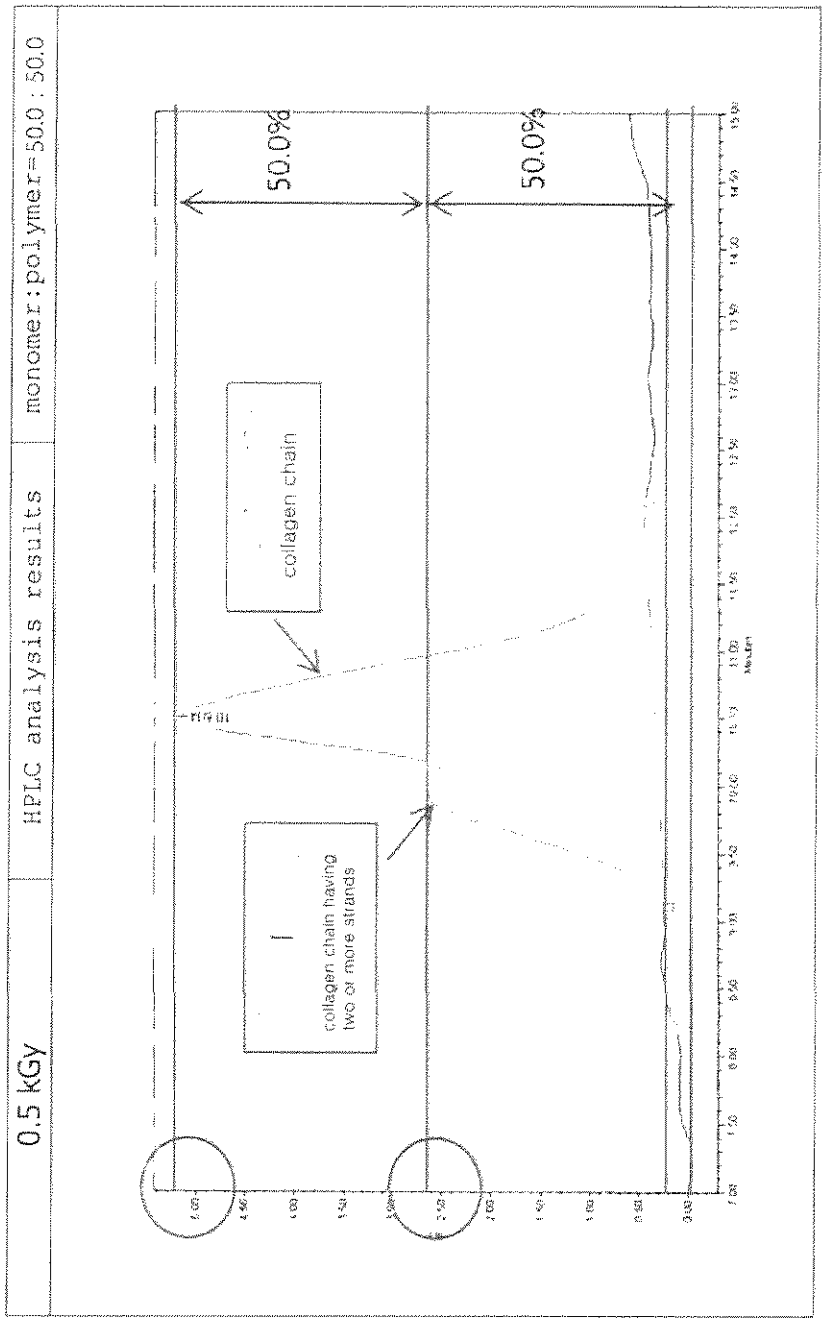
[Fig.9]


0 kGy
HPLC analysis results
monomer:polymer=81.5 : 18.5
81.5%
18.5%
collagen chain
collagen chain having two or more strands

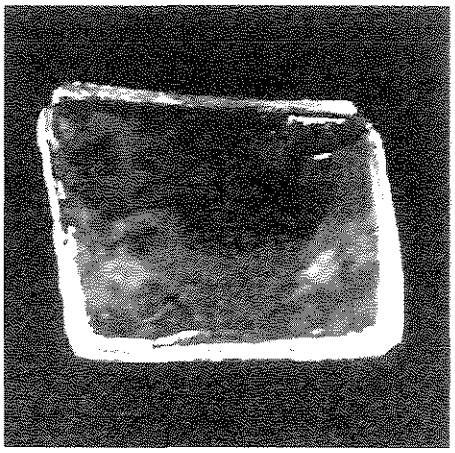
[Fig.10]


0.1 kGy
HPLC analysis results
monomer:polymer=62.5 : 37.5
62.5%
37.5%
collagen chain
collagen chain having
two or more strands

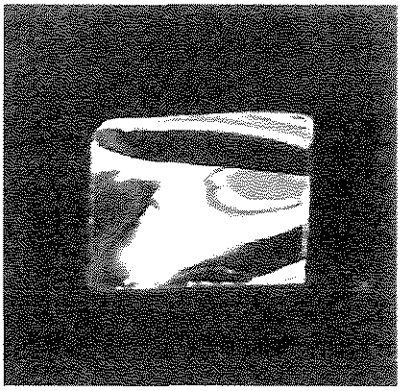
[Fig.11]


0.5 kGy
HPLC analysis results
monomer:polymer=50.0 : 50.0
50.0%
50.0%
collagen chain
collagen chain having two or more strands

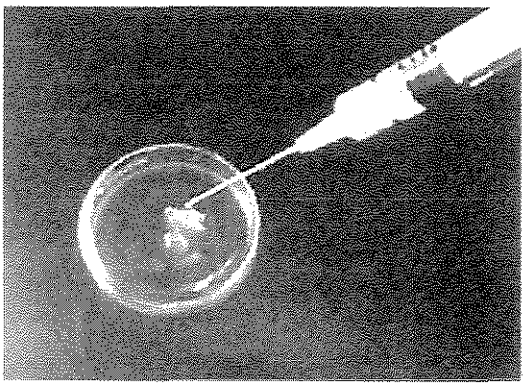
[Fig.12]



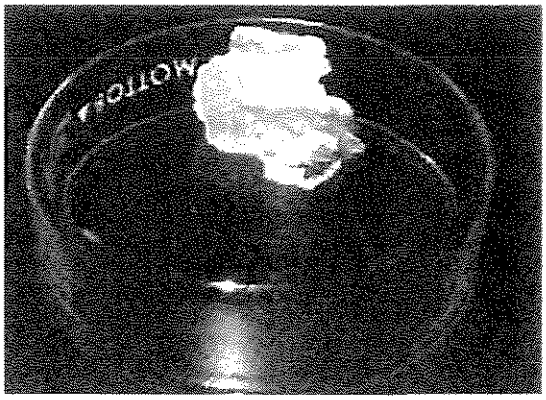
[Fig.13]



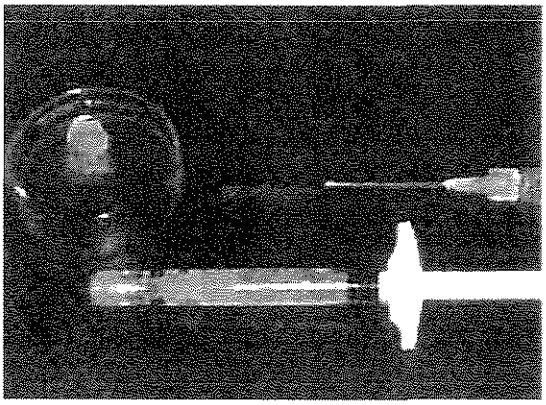
[Fig.14]



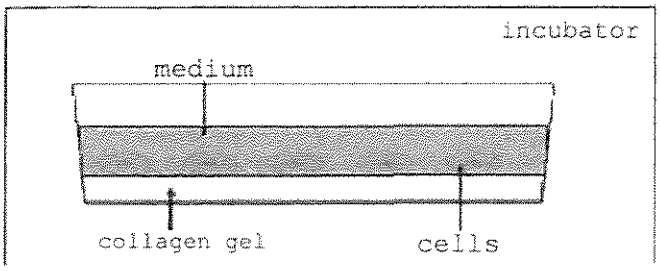
[Fig.15]



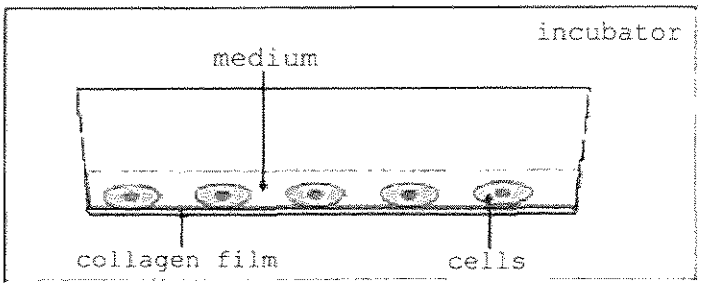
[Fig.16]



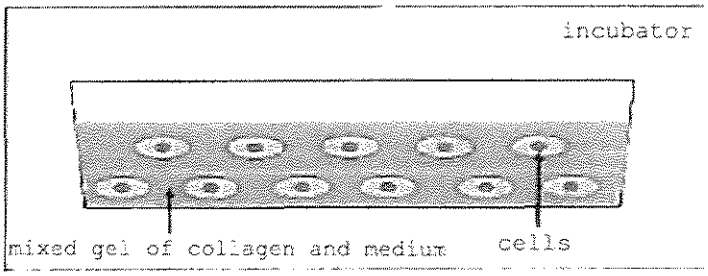
[Fig.17]



[Fig.18]


incubator
medium
collagen film
cells

[Fig.19]


incubator
mixed gel of collagen and medium
cells