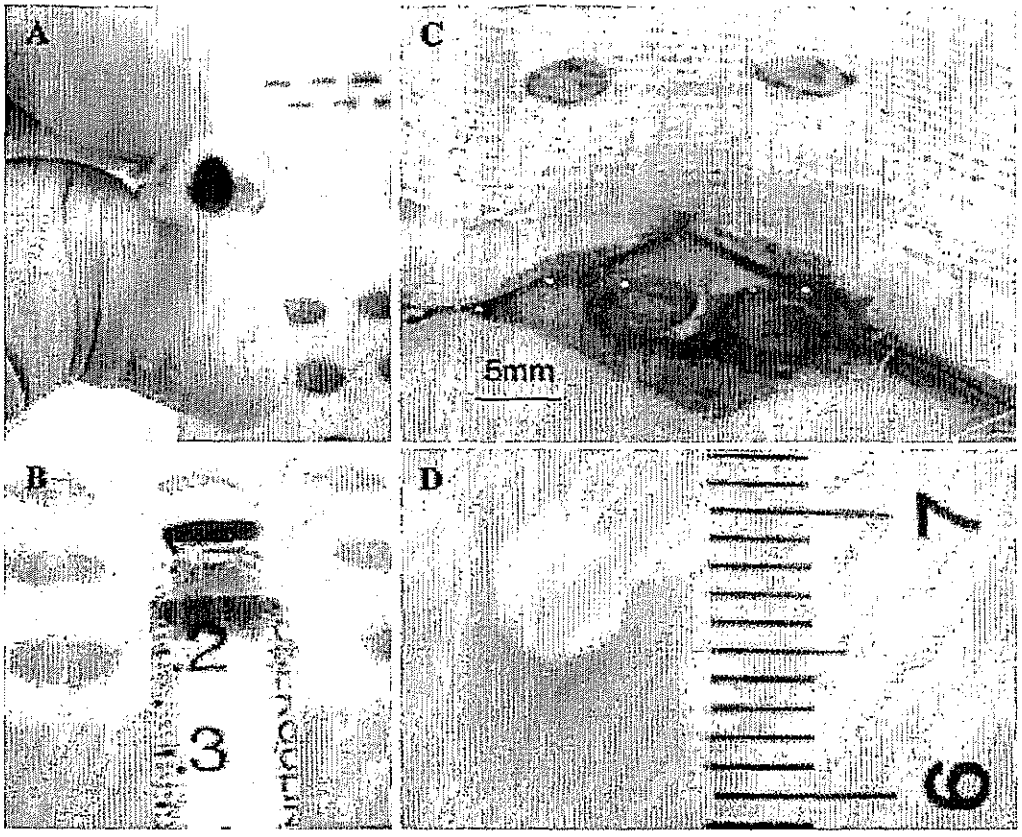


Figure 1

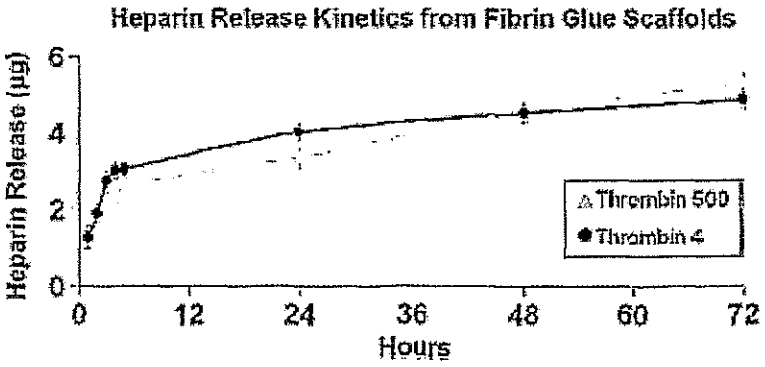


Figure 2

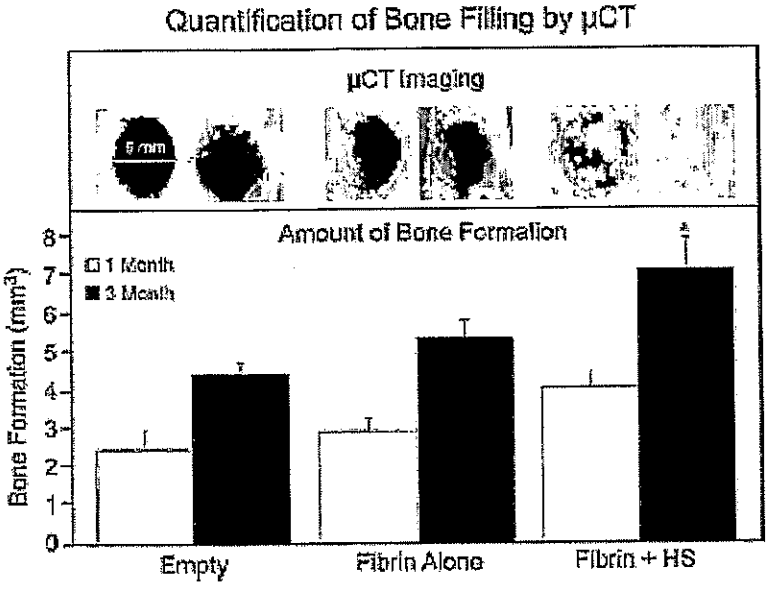


Figure 3

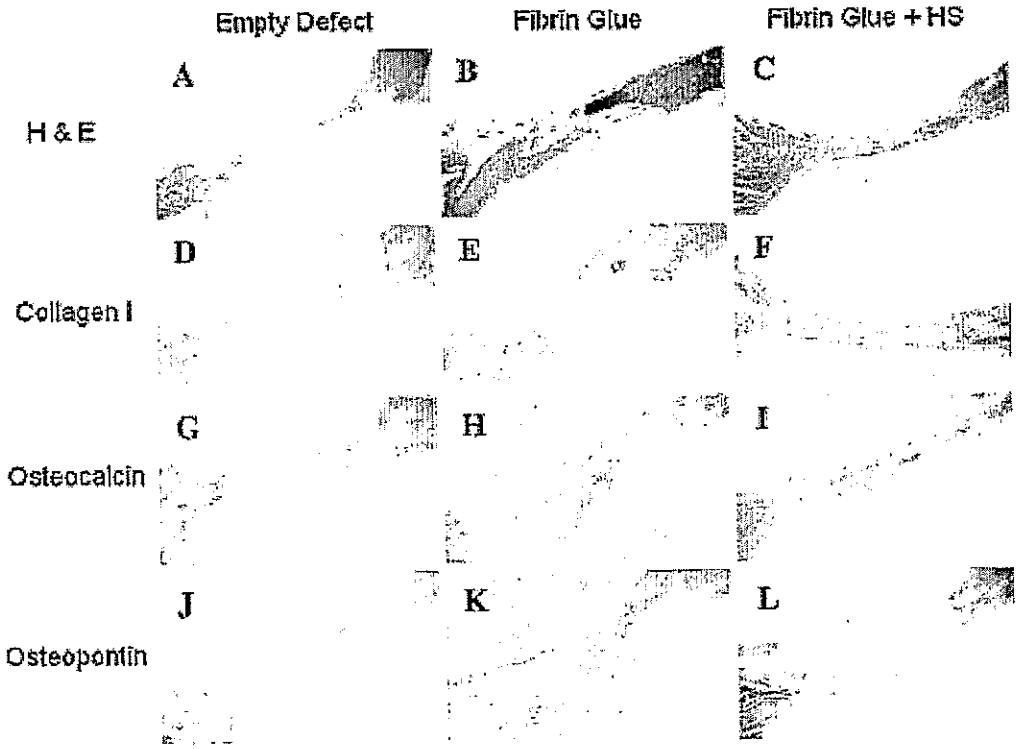


Figure 4

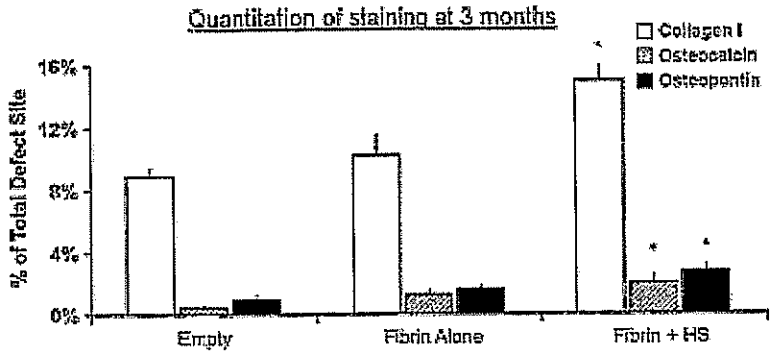


Figure 5

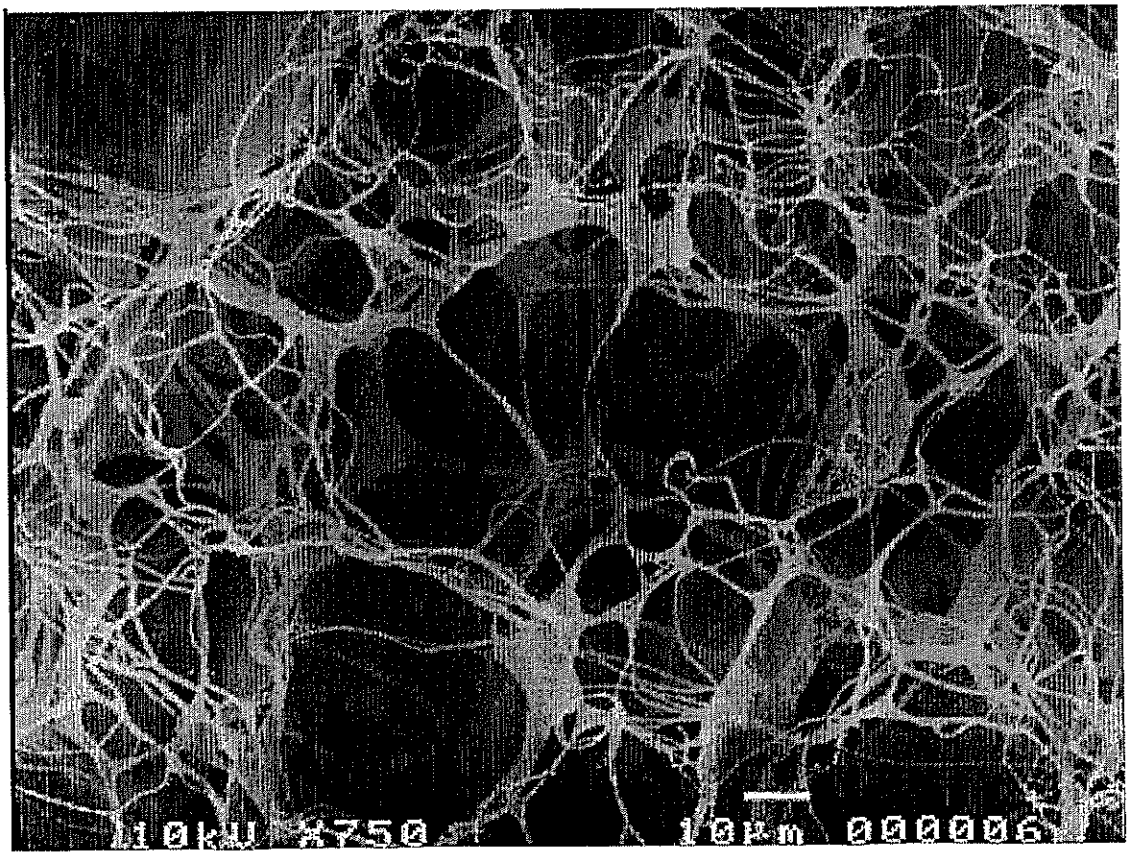


Figure 6

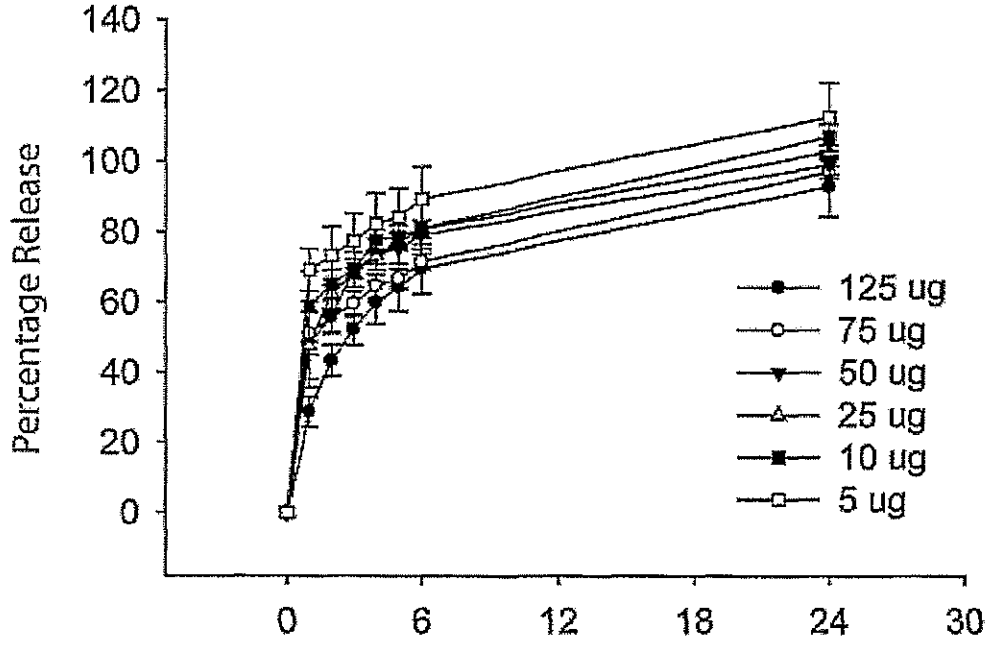


Figure 7

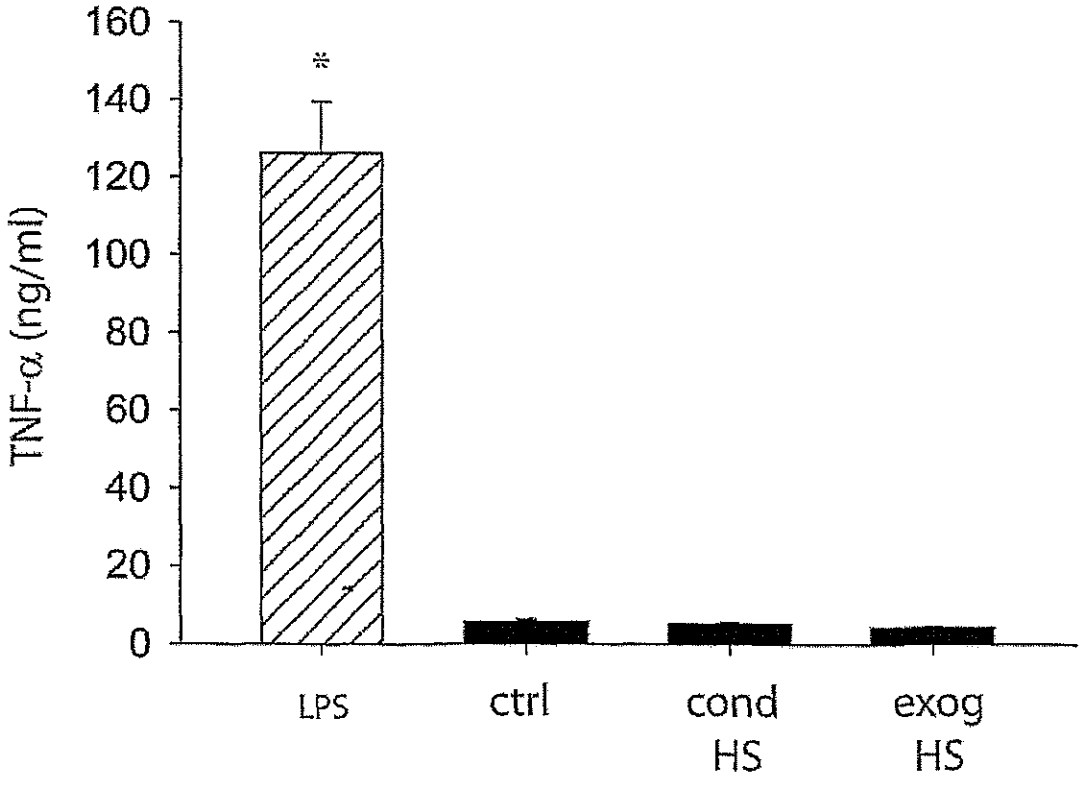


Figure 8

CONDITION	E 10
pronase	40,000
mild alkali treatment	25,000
heparinase	7,000
number of heparinase resistant domains	2

Figure 9

	% E10
TREATMENT	
Heparitinase	61.5
Heparinase	15.3
HNO_2	49.0

Figure 10

	%E10 GAG
DISACCHARIDE	
IdoA/GlcA-AMann$_R$	12.9
IdoA(2S)-AMann$_R$	53.4
GlcA-AMann$_R$(6S)	10.25
IdoA-AMann$_R$(6S)	3.4
IdoA(2S)-AMann$_R$(6S)	18.7
GlcA(2S)-AMann$_R$	1.0
GlcA-AMann$_R$(3S)	0.30
GlcA- AMann$_R$(3,6S)	0.15
UNKNOWN	0.0

Figure 11

	% IN E10
sulfation number : peak number	
Non-sulfated : 1	37.2
Mono-sulfated : 1	1.5
Mono-sulfated : 2	1.0
Mono-sulfated : 3	0.3
Mono-sulfated : 4	0.3
Mono-sulfated : 5	7.7
Mono-sulfated : 6	23.9
Mono-sulfated : 7	18.4
Mono-sulfated : 8	0.7
Mono-sulfated : 9	0.4
Di-sulfated : 1	1.8
Di-sulfated : 2	0.9
Di-sulfated : 3	2.7
Di-sulfated : 4	1.5
Tri-sulfated : 1	1.0
Tri-sulfated : 2	0.0
Tri-sulfated : 3	0.3
Tri-sulfated : 4	0.4
TOTAL	100

Figure 12

PEAK NUMBER	DISACCHARIDE	% in E10 GAG
1	ΔHexUA-GlcNAc	44.8
3	ΔHexUA-$GlcNSO_3$	21.5
2	ΔHexUA-GlcNAc(6S)	8.0
7	ΔHexUA(2S)-GlcNAc	2.4
4	ΔHexUA-$GlcNSO_3$(6S)	4.0
5	ΔHexUA(2S)-$GlcNSO_3$	12.4
8	ΔHexUA(2S)-GlcNAc(6S)	0.2
6	ΔHexUA(2S)-$GlcNSO_3$(6S)	4.1
9	unknown	2.4

Figure 13

SULFATION	% in E10 GAG
Total sulfation/100 disaccharides	77.4
6-*O*-Sulfate	16.3
2-*O*-Sulfate	19.1
N-Sulfate	42.0
O-Sulfate	35.4
ratios of sulfations	
2-*O*-Sulfate/6-*O*-Sulfate	1.17
N-Sulfate/*O*-Sulfate	1.19
N-Sulfate/2-*O*-Sulfate	2.2
N-Sulfate/6-Sulfate	2.58

Figure 14