

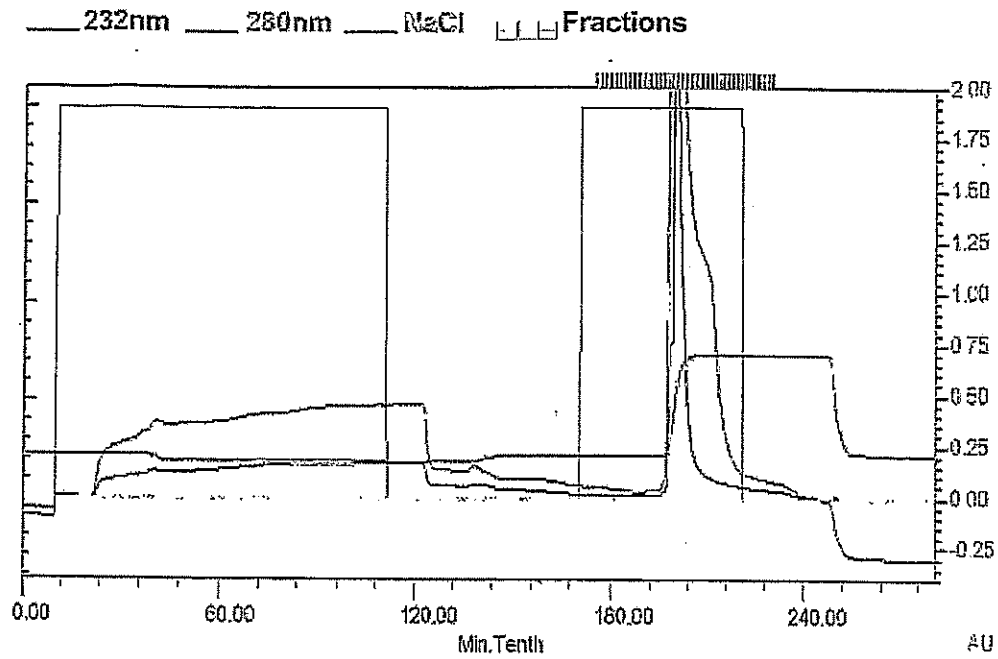


Figure 1

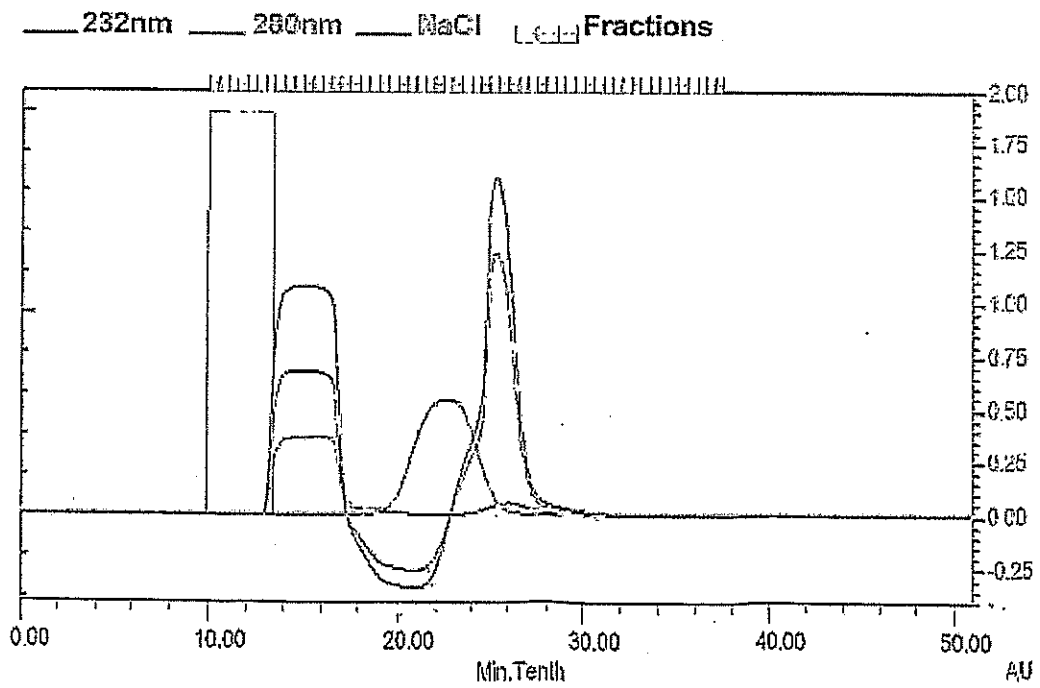


Figure 2

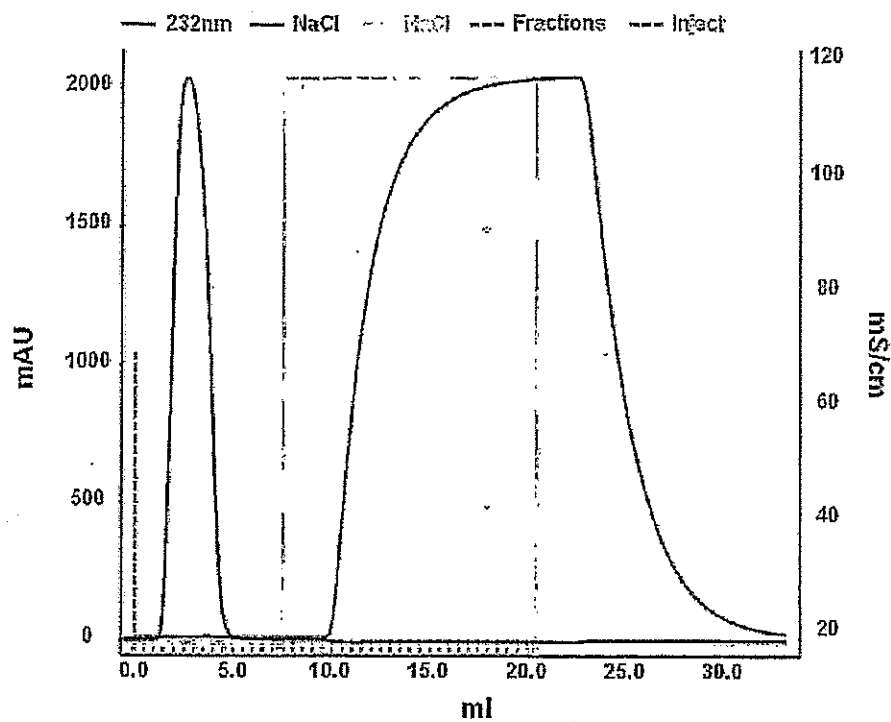


Figure 3

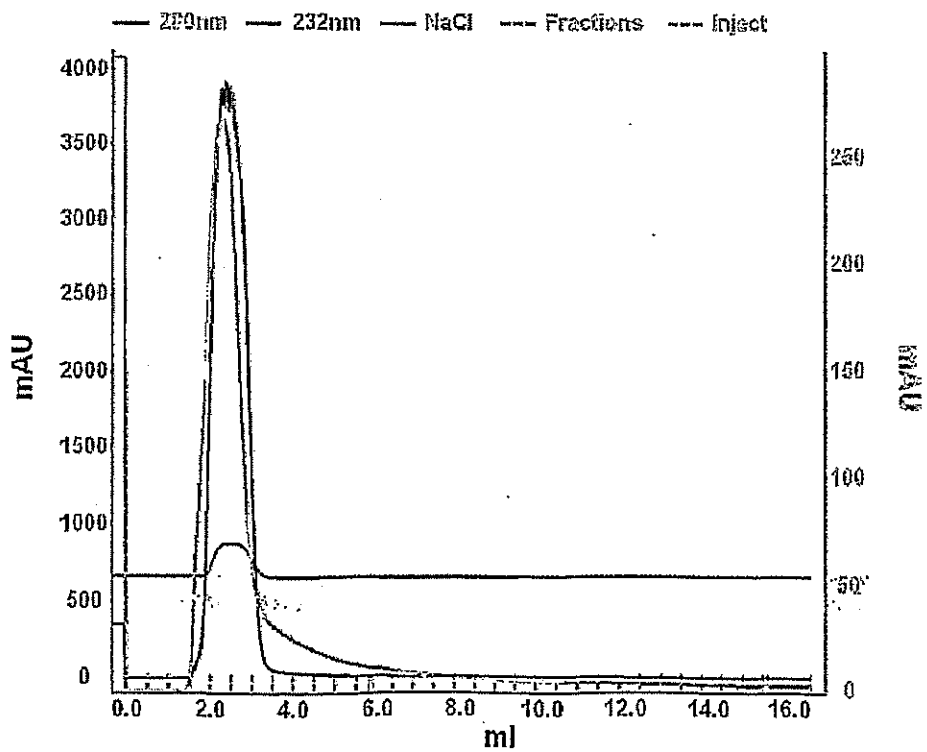


Figure 4

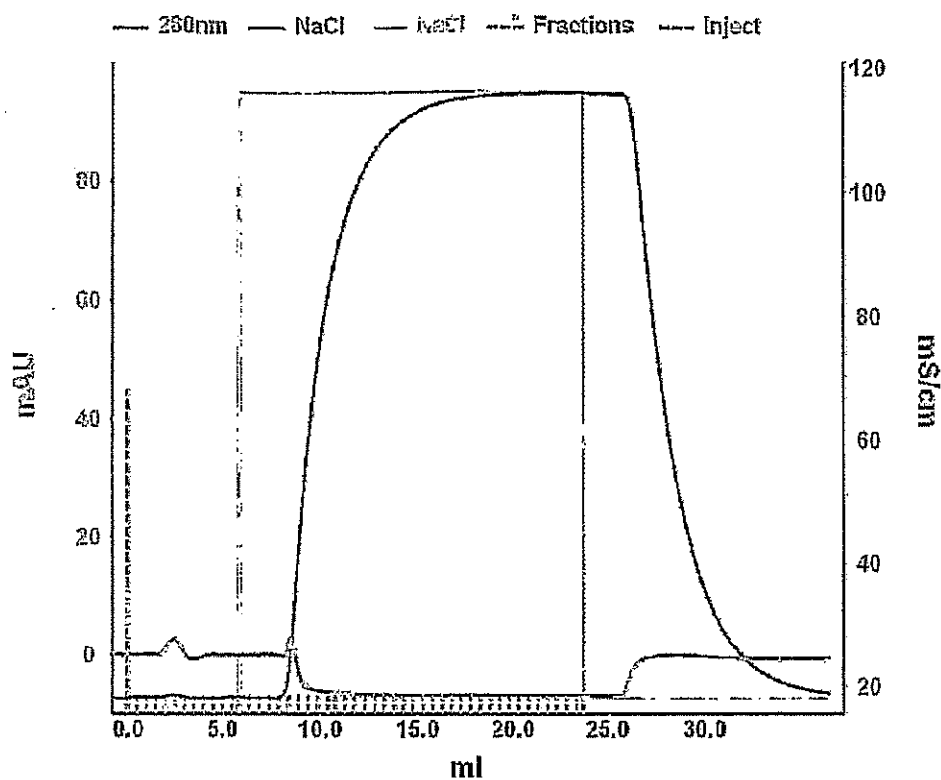


Figure 5

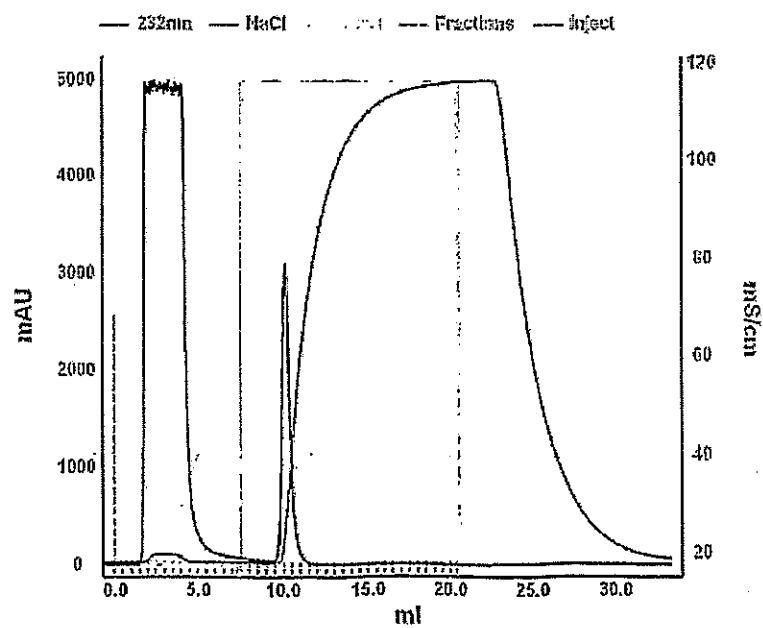


Figure 6

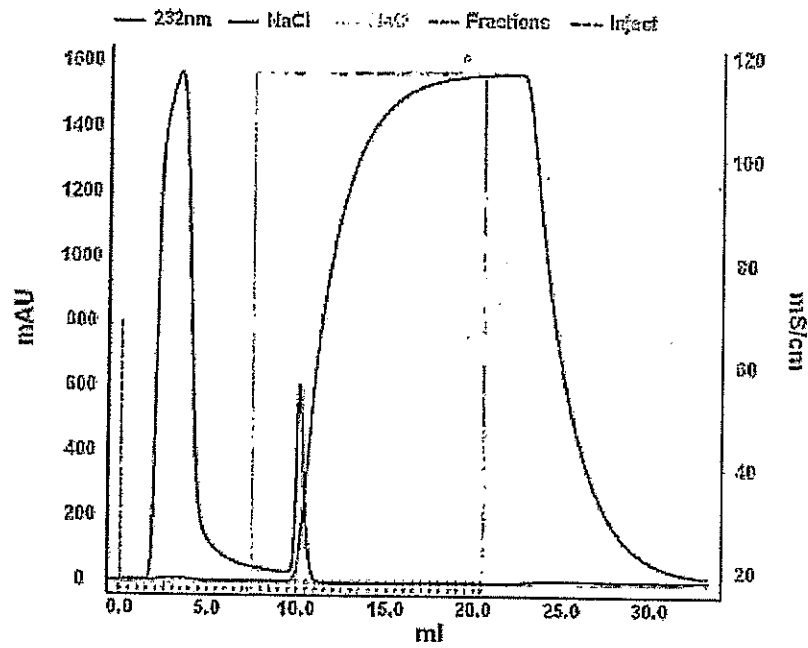


Figure 7

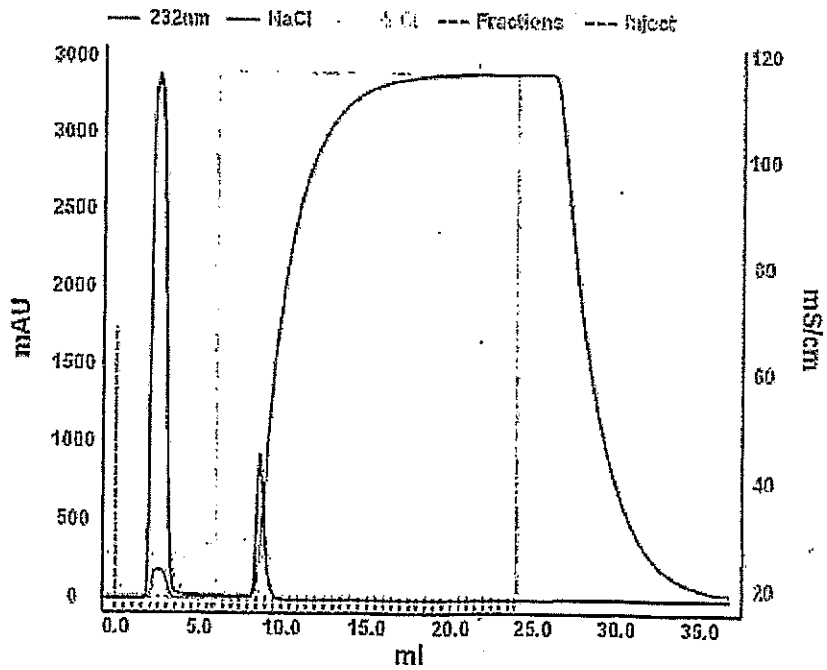


Figure 8

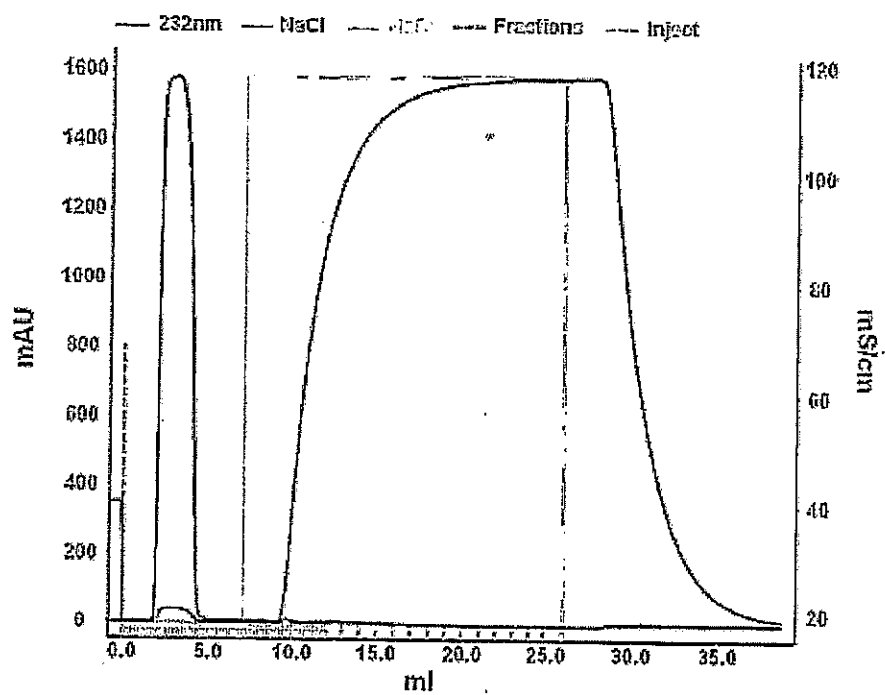


Figure 9

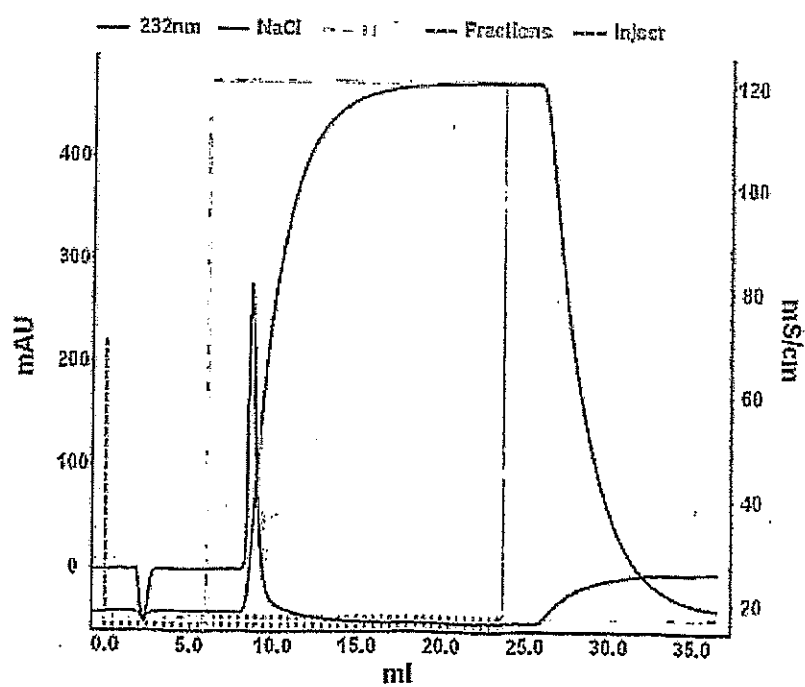


Figure 10

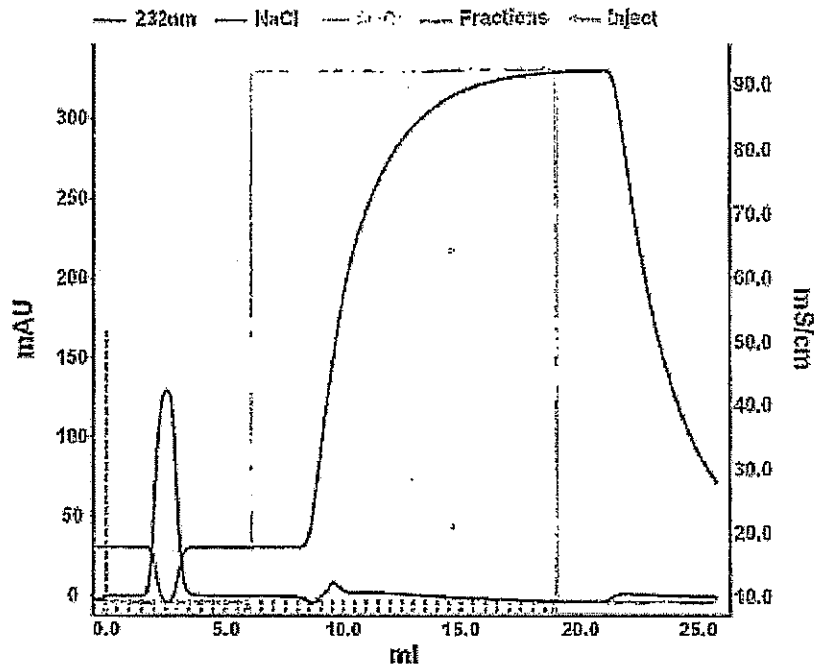


Figure 11

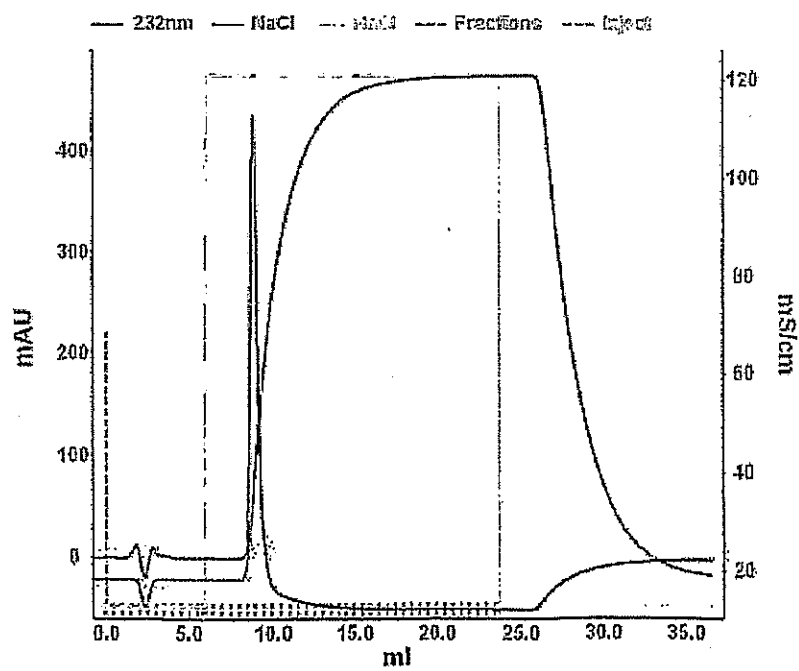


Figure 12

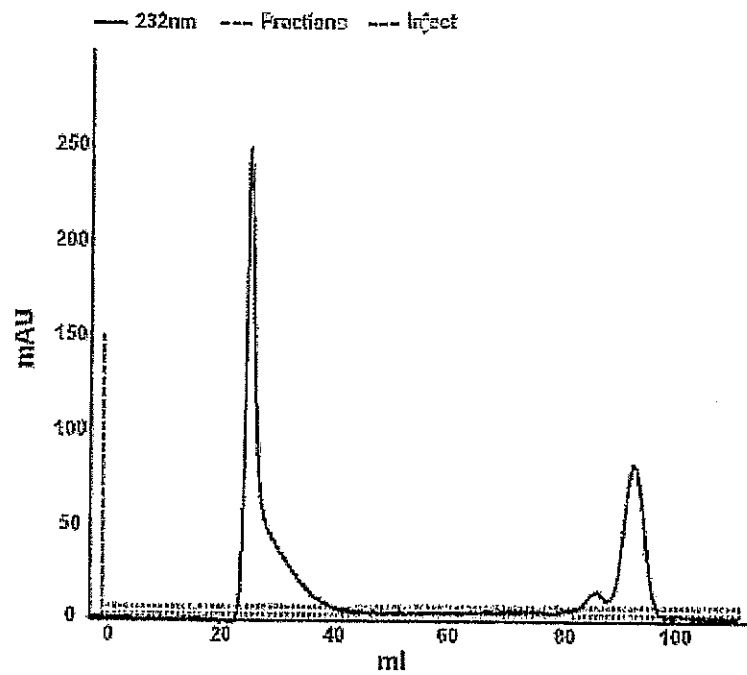


Figure 13

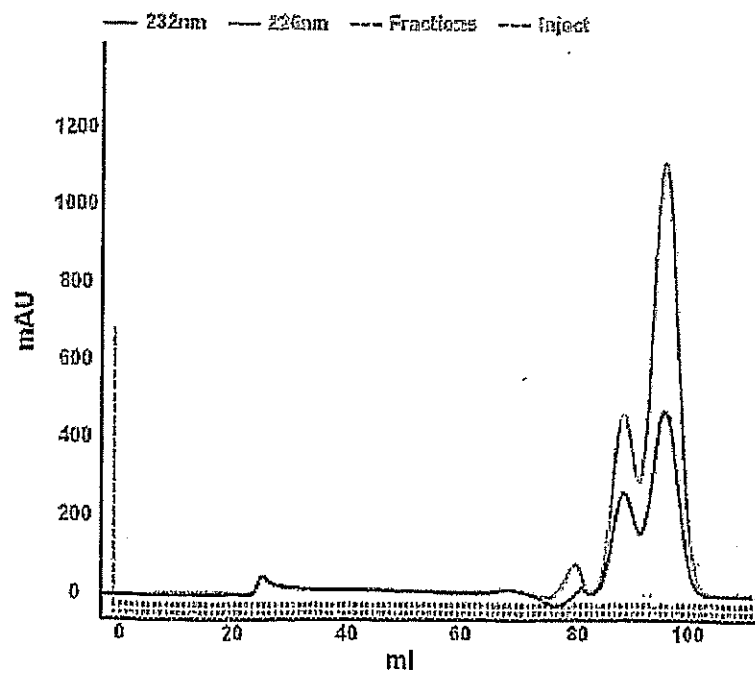


Figure 14

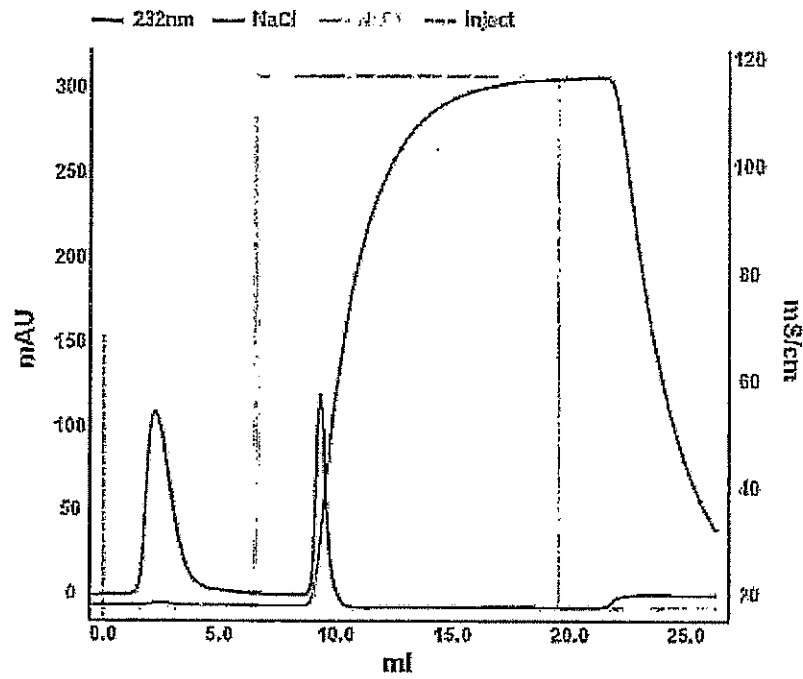


Figure 15

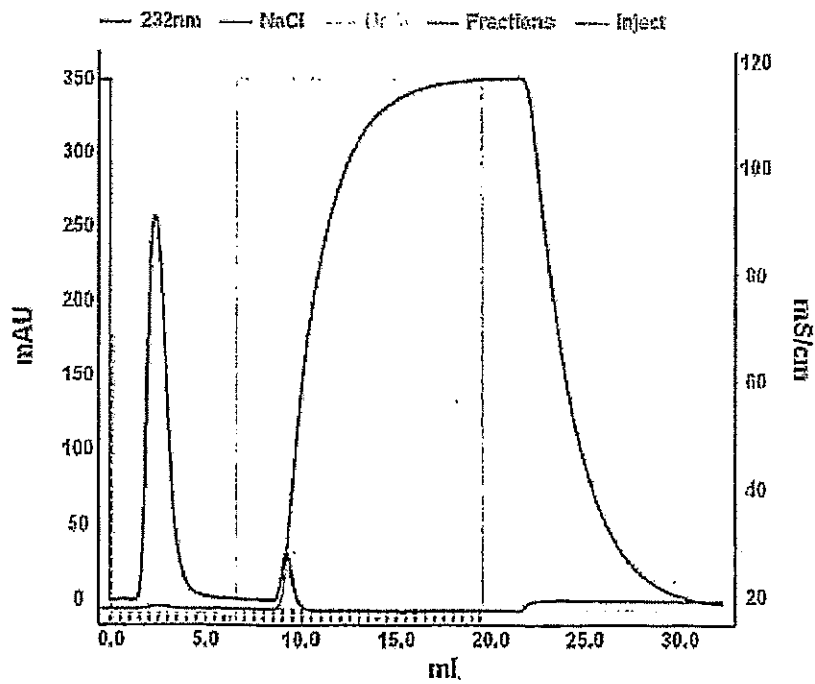


Figure 16

9/41

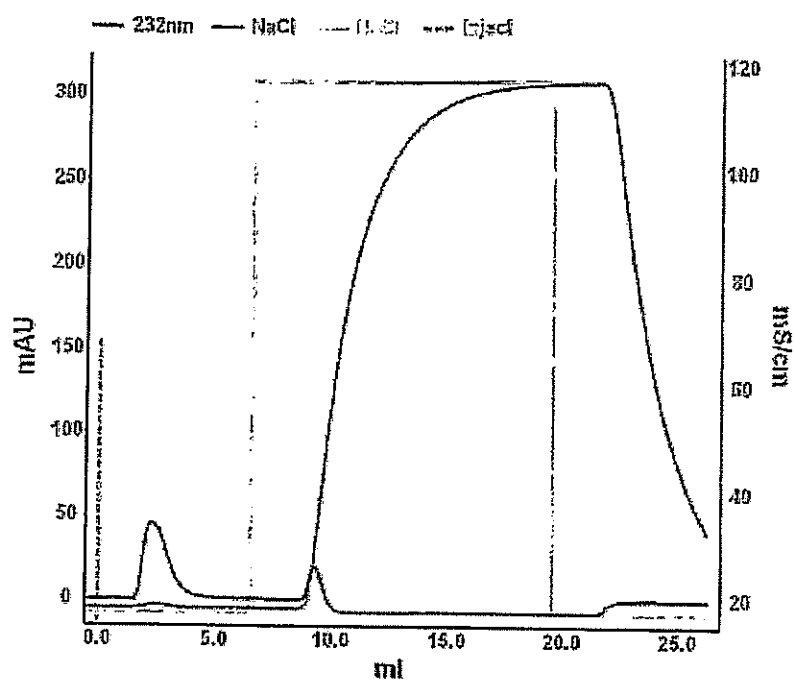


Figure 17

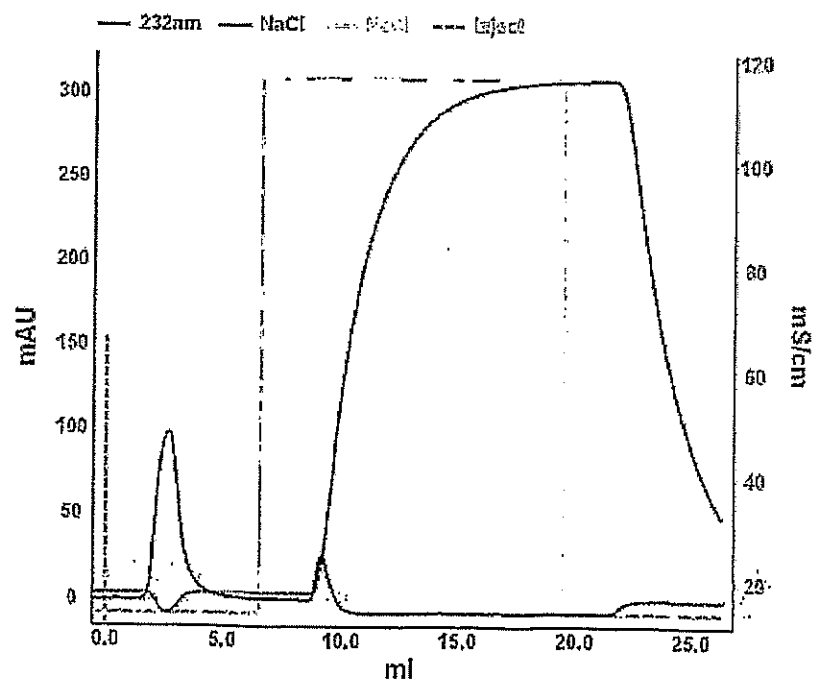


Figure 18

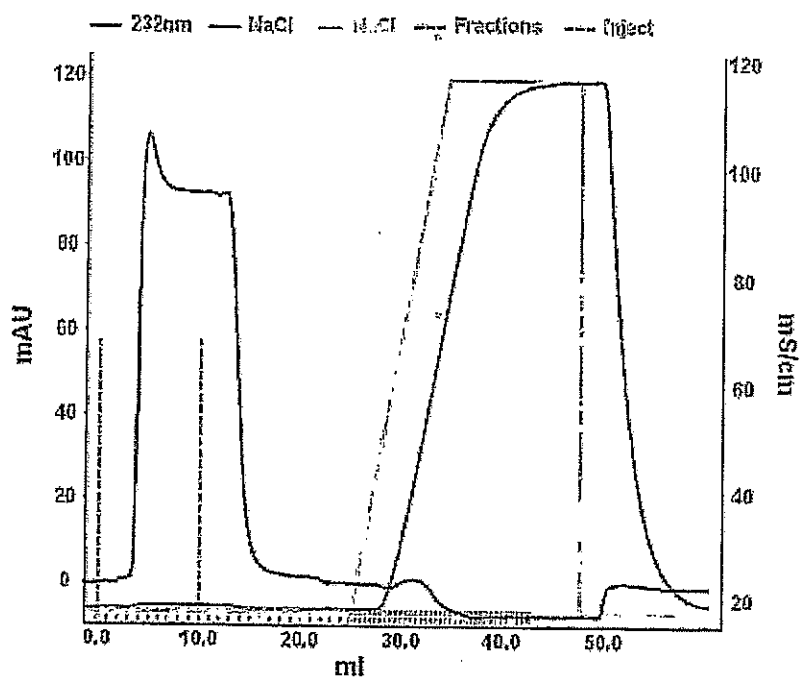


Figure 19

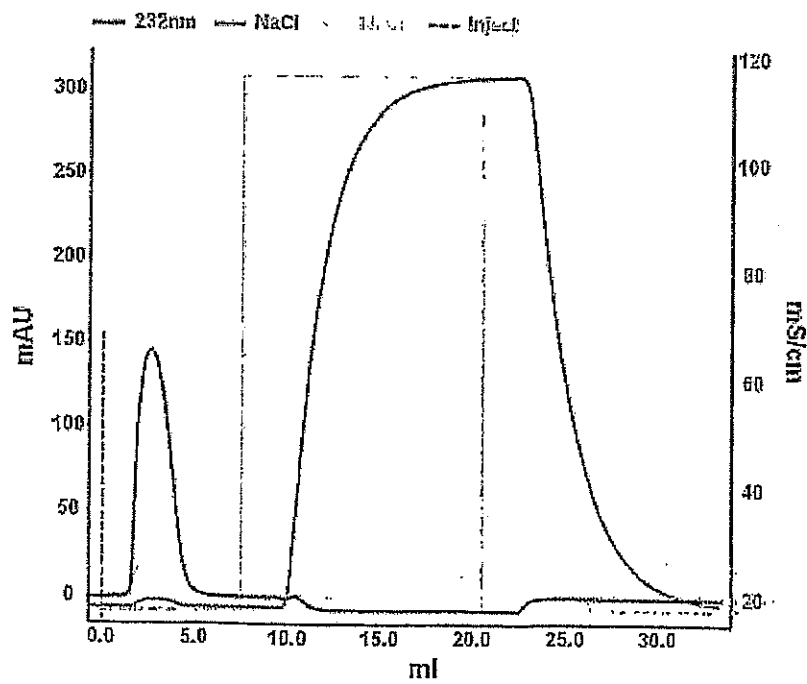


Figure 20

11/41

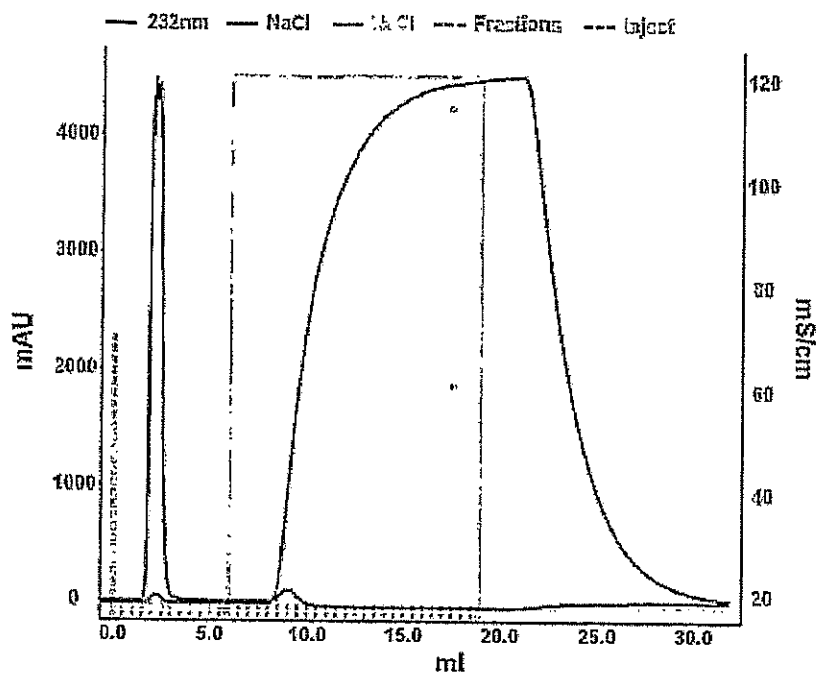


Figure 21

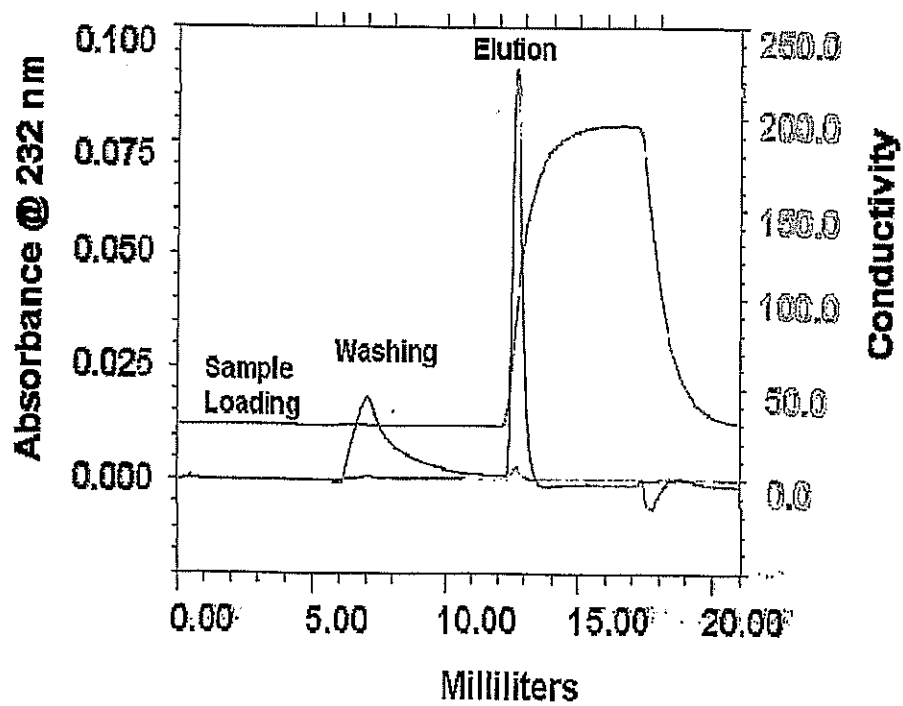


Figure 22

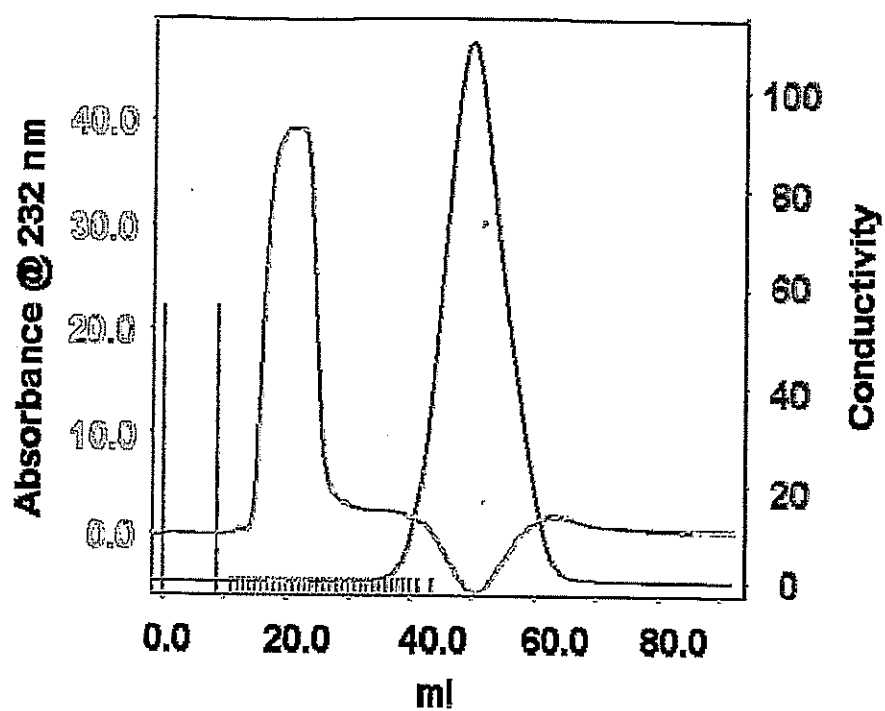


Figure 23

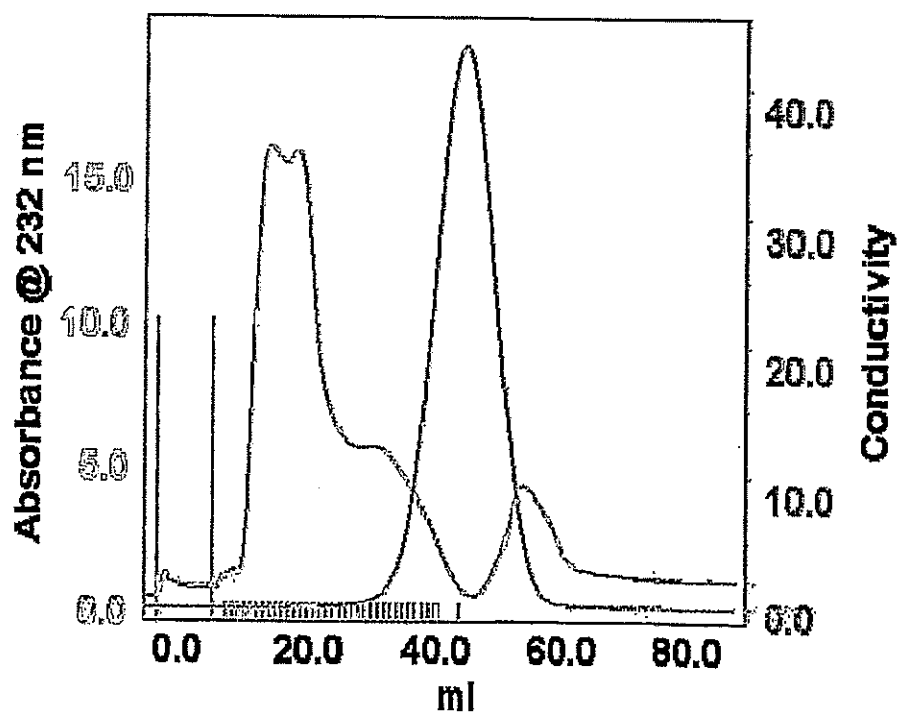


Figure 24

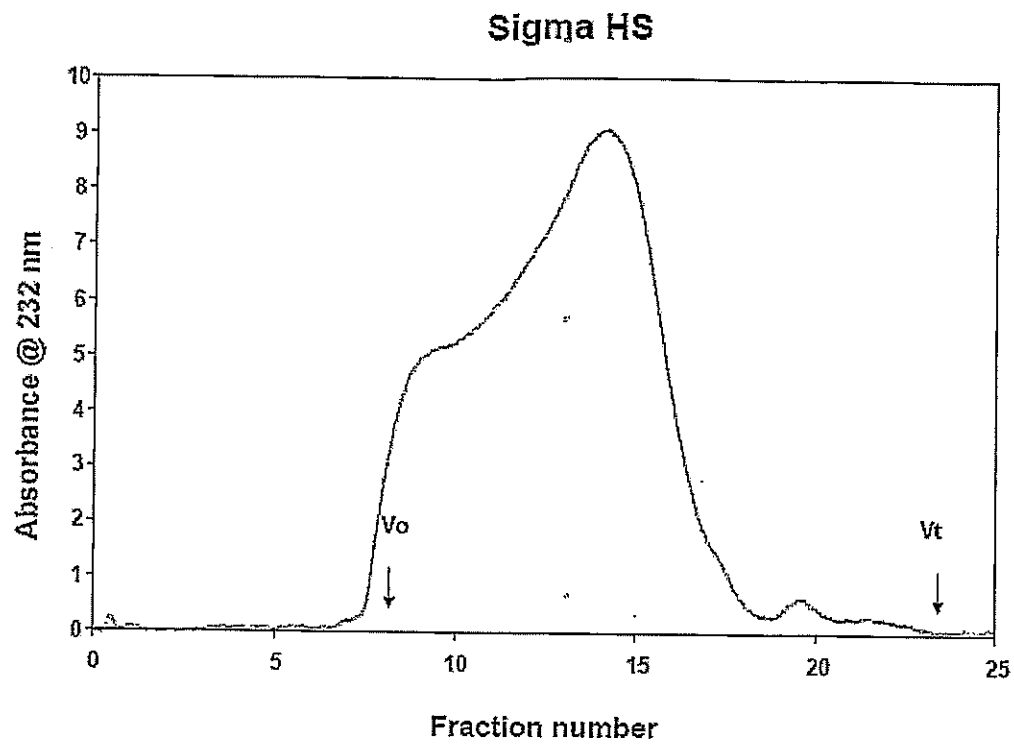


Figure 25

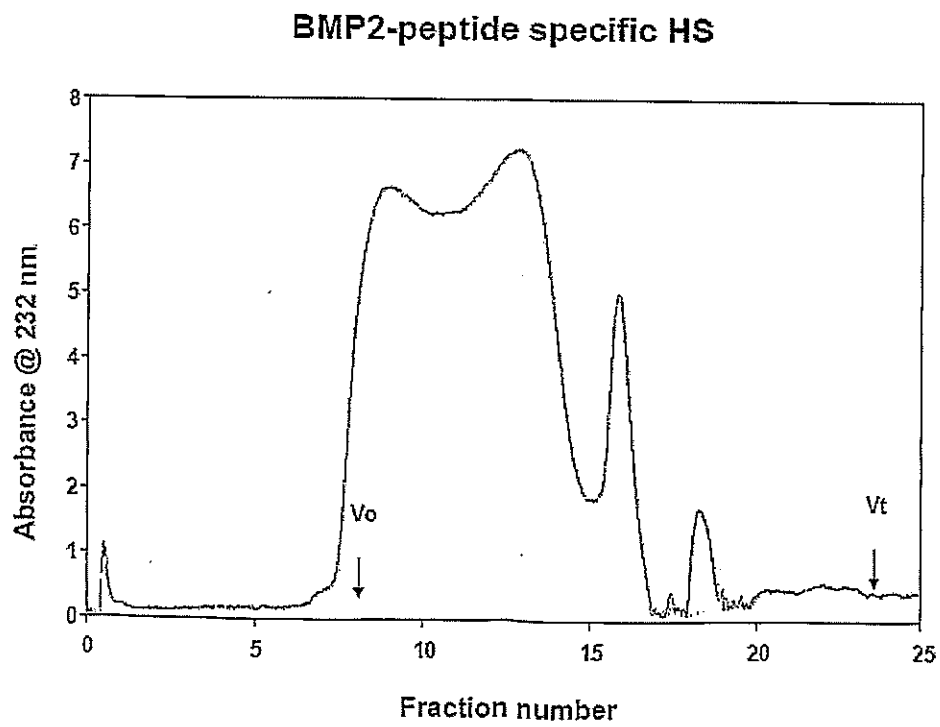


Figure 26

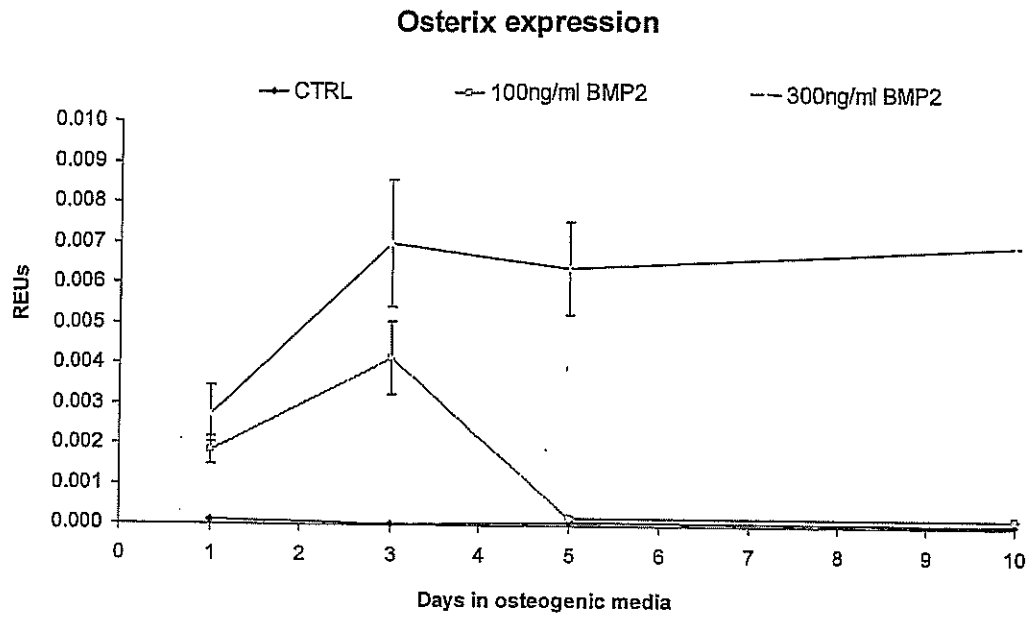


Figure 27

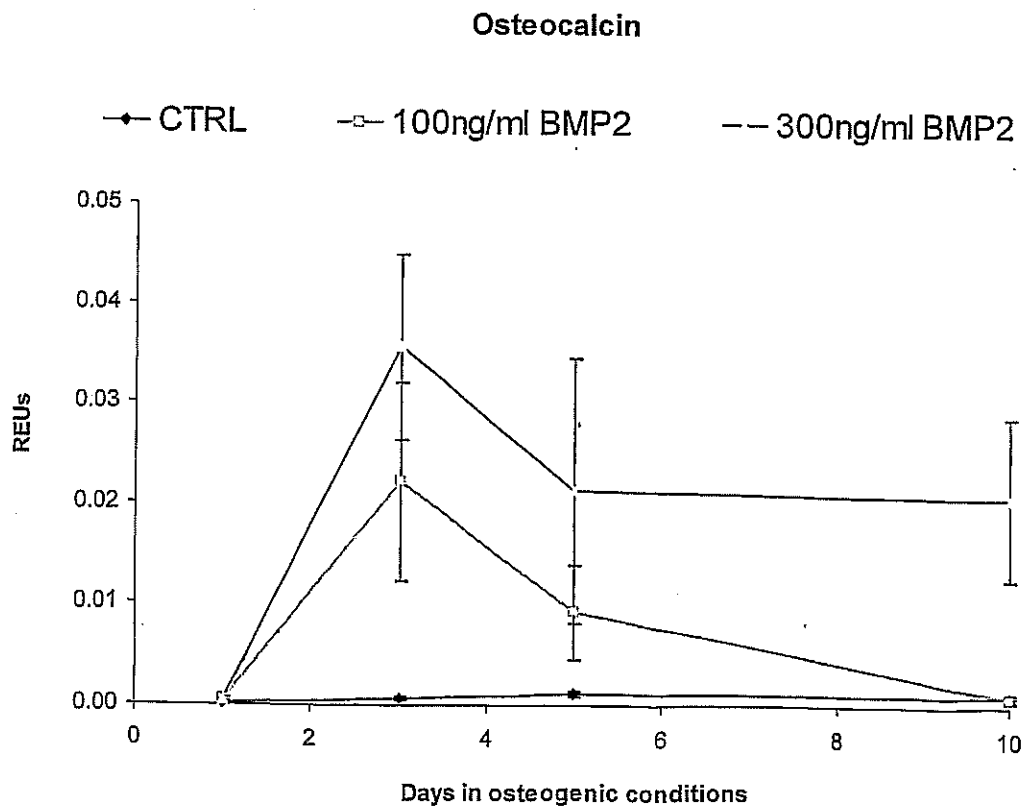


Figure 28

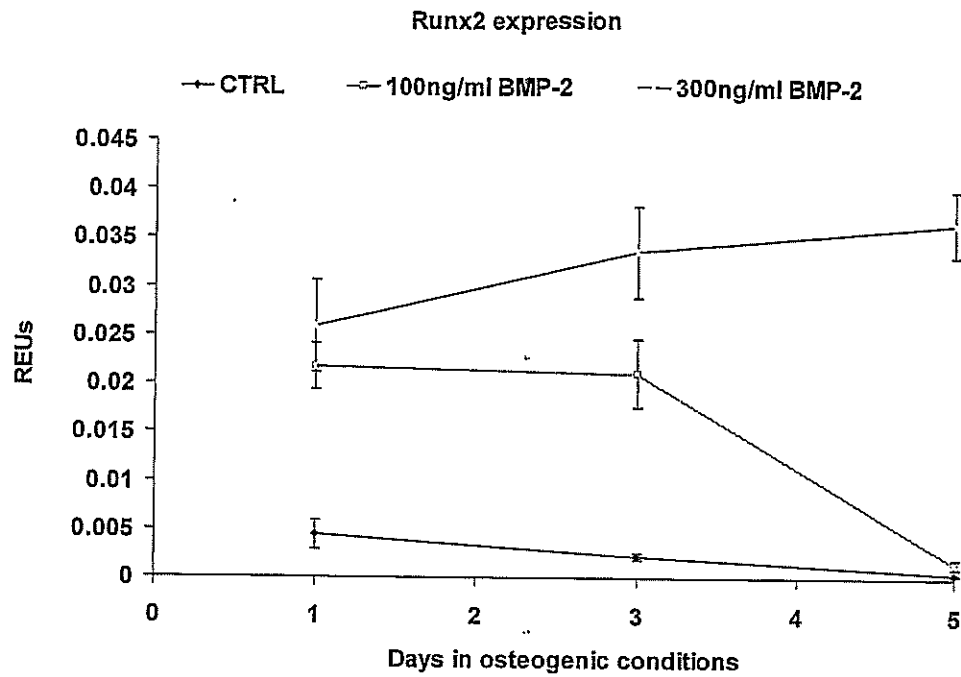


Figure 29

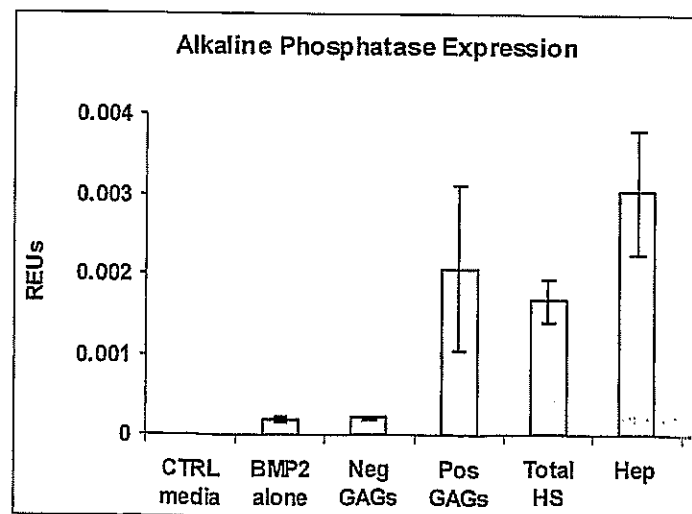


Figure 30

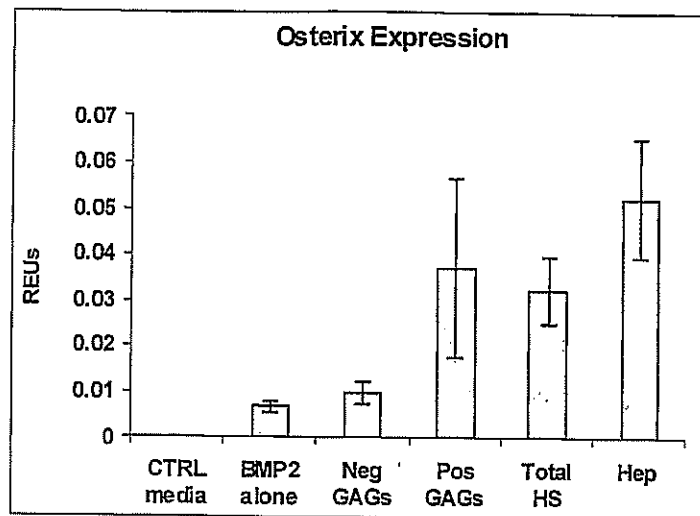


Figure 31

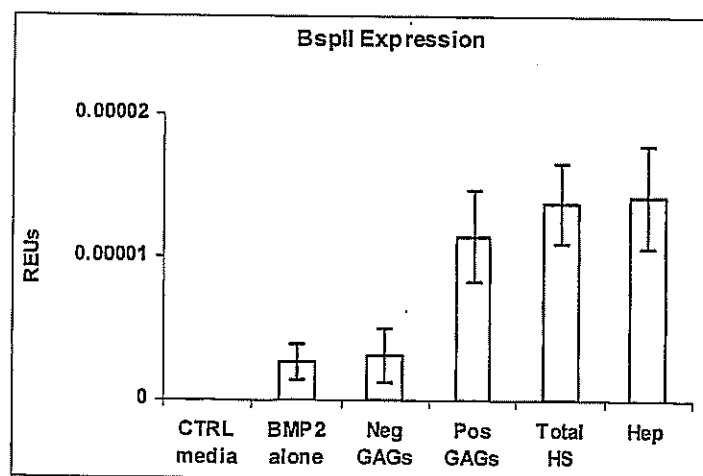


Figure 32

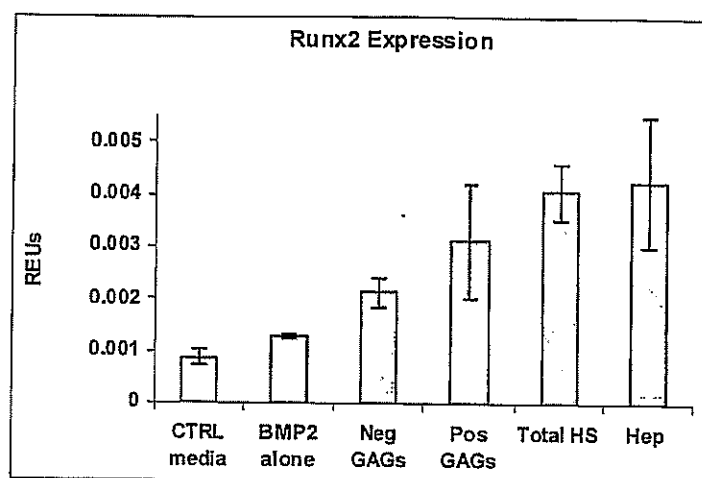


Figure 33

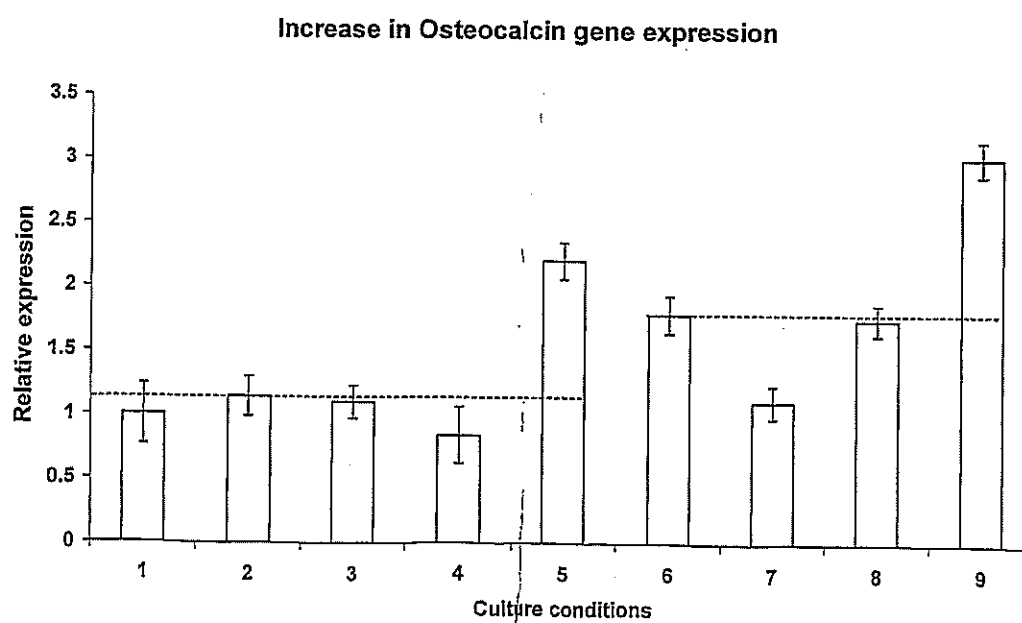


Figure 34

1 MVAGTRCLLA LLLPQVLLGG AAGLVPELGR RKFAAASSGR PSSQPSDEVL SEFELRLLSM
61 FGLKQRPTPS RDAVVPYML DLYRRHSGQP GSPAPDHRLE RAASRANTVR SFHHEESLEE
121 LPETSGKTTR RFFFNLSIP TEEFITSDEL QVFREQMQDA LGNNSSFHHR INYEIKPA
181 TANSKFPVTR LLDTRLVNQN ASRWESFDVT PAVMRWTAQG HANHGFWVEV AHLEEKQGV
241 KRVHVRISRL HQDEHSWSQI RPLLVTFGHD GKGHPLHKRE KRQAKHKQKRLKSSCKRHP
411 LYVDFSDVGW NDWIVAPPGY HAFYCHGECF FPLADHLNST NHAIVQTLVN SVNSKIPKAC
361 CVPTLSAIS MLYLDENEKV VLKQYQDMVV EGGGCR

Figure 35

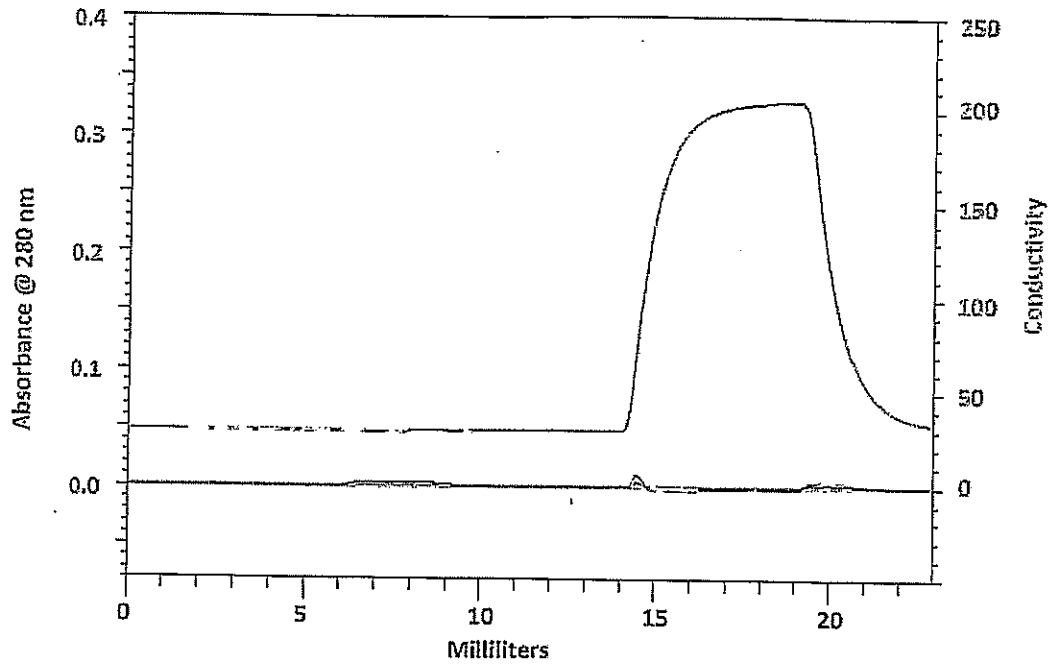


Figure 36

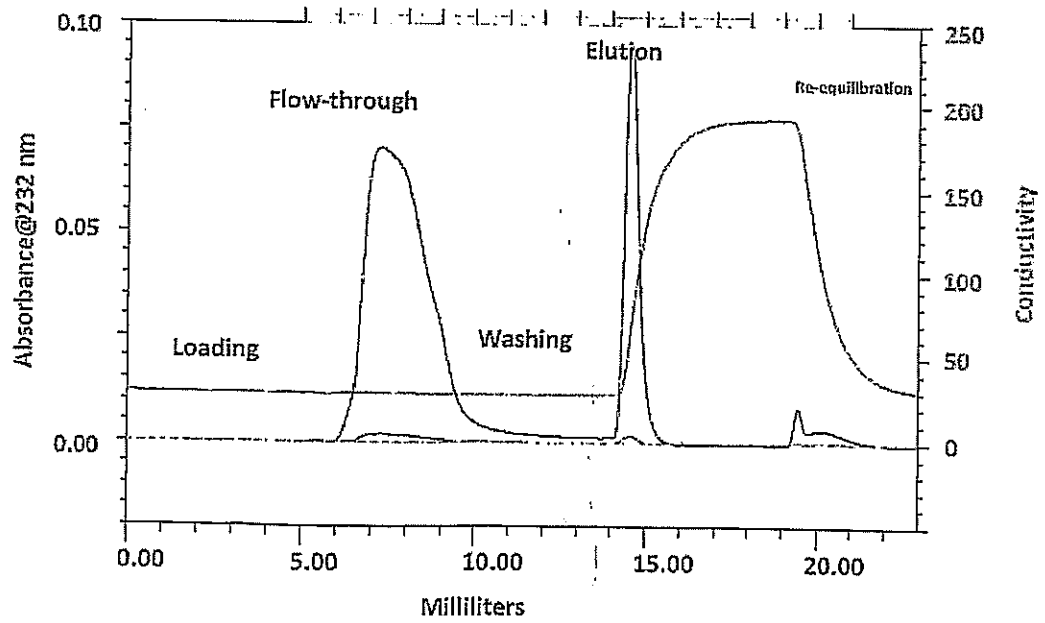


Figure 37

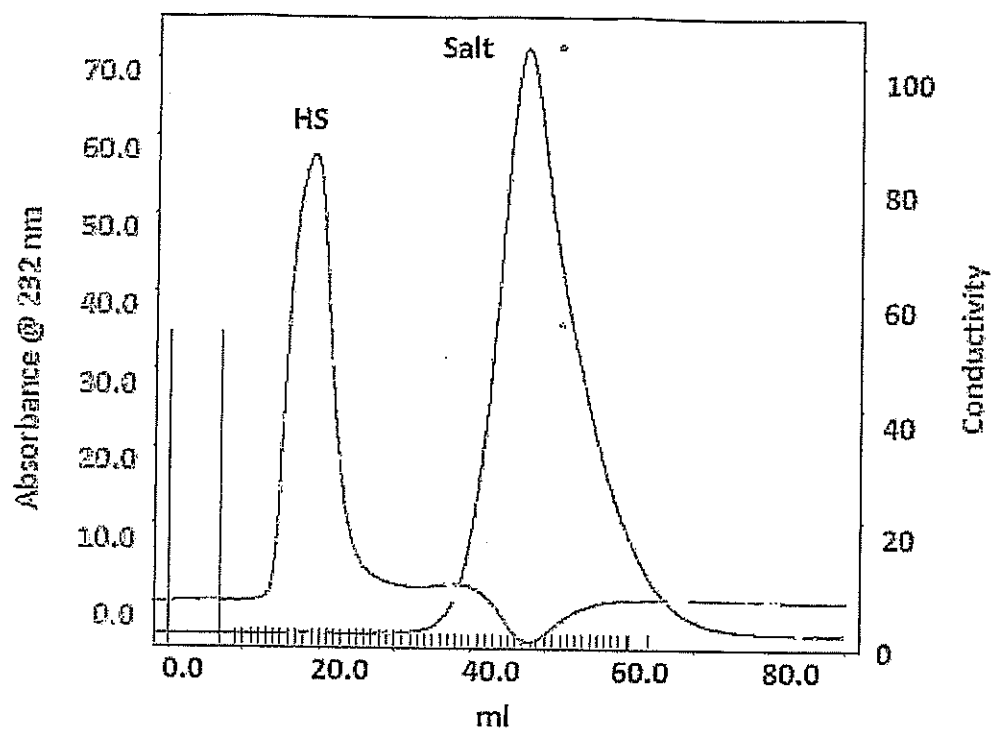


Figure 38

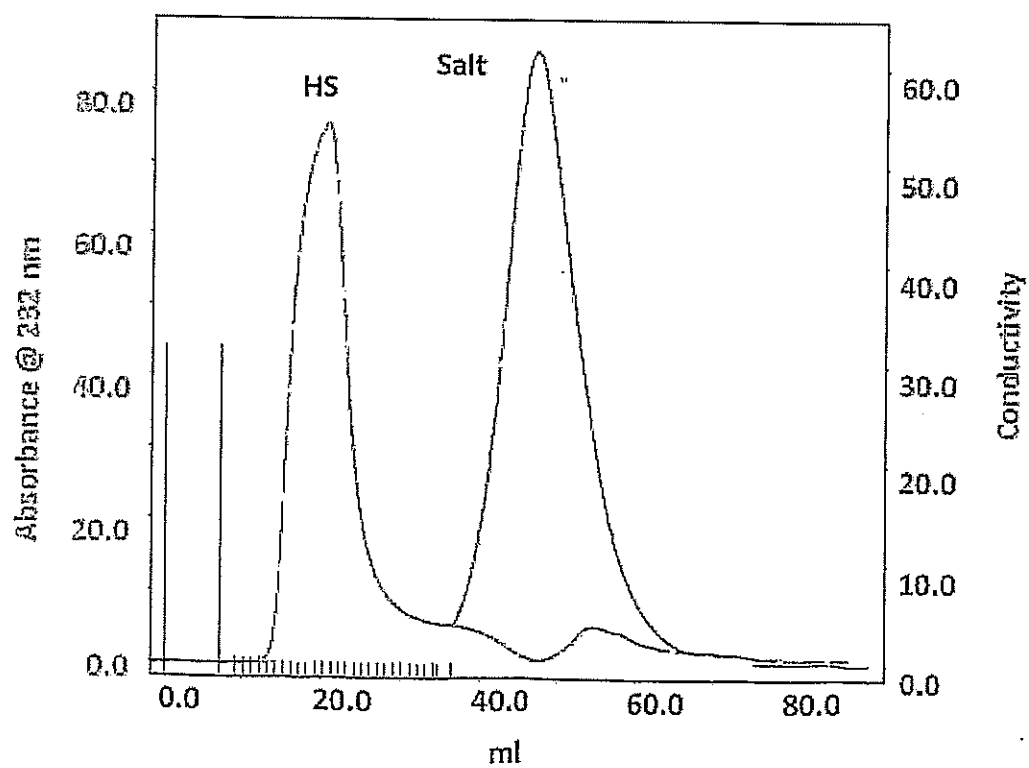


Figure 39

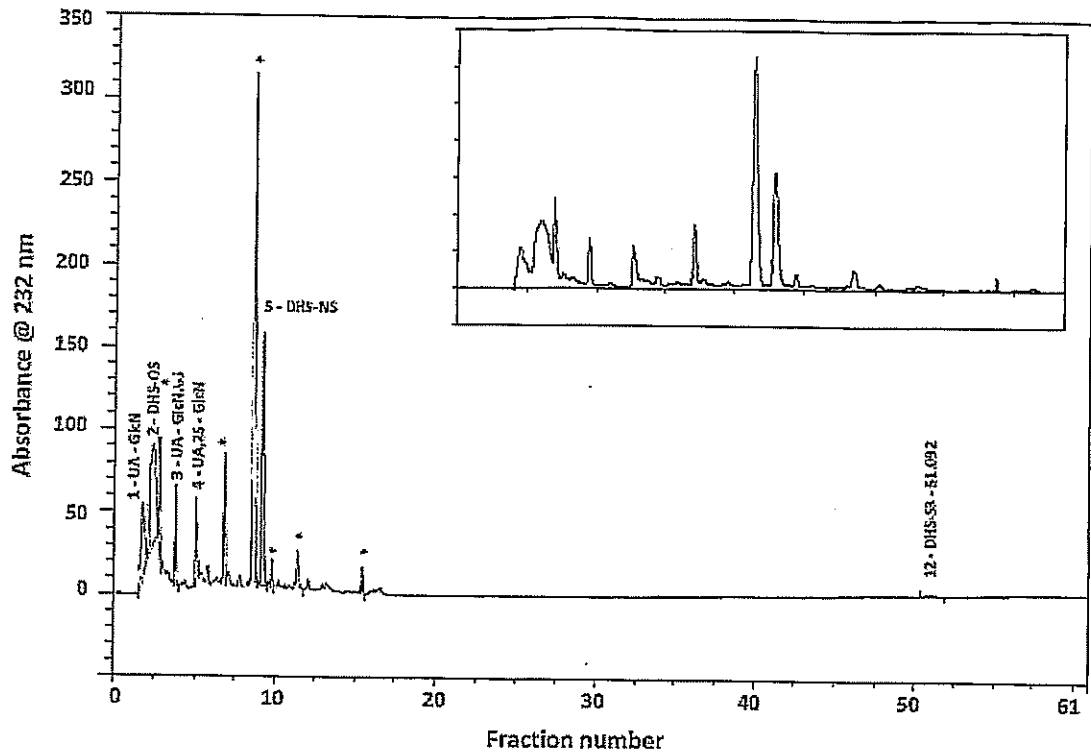


Figure 40

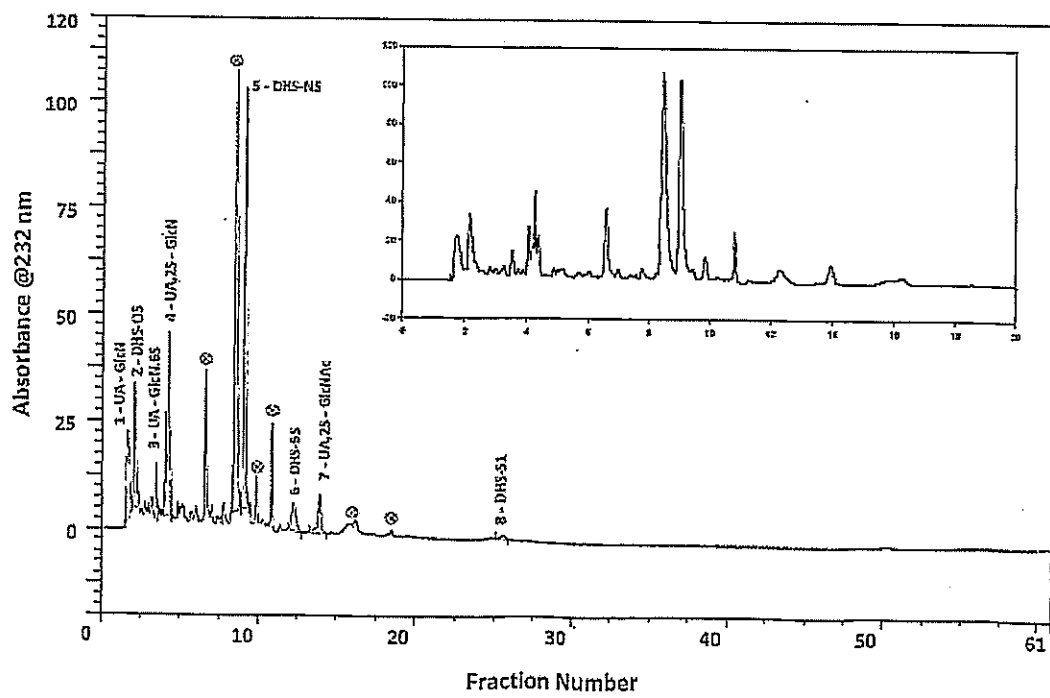


Figure 41

SAX-HPLC disaccharide profile of Celsus HS

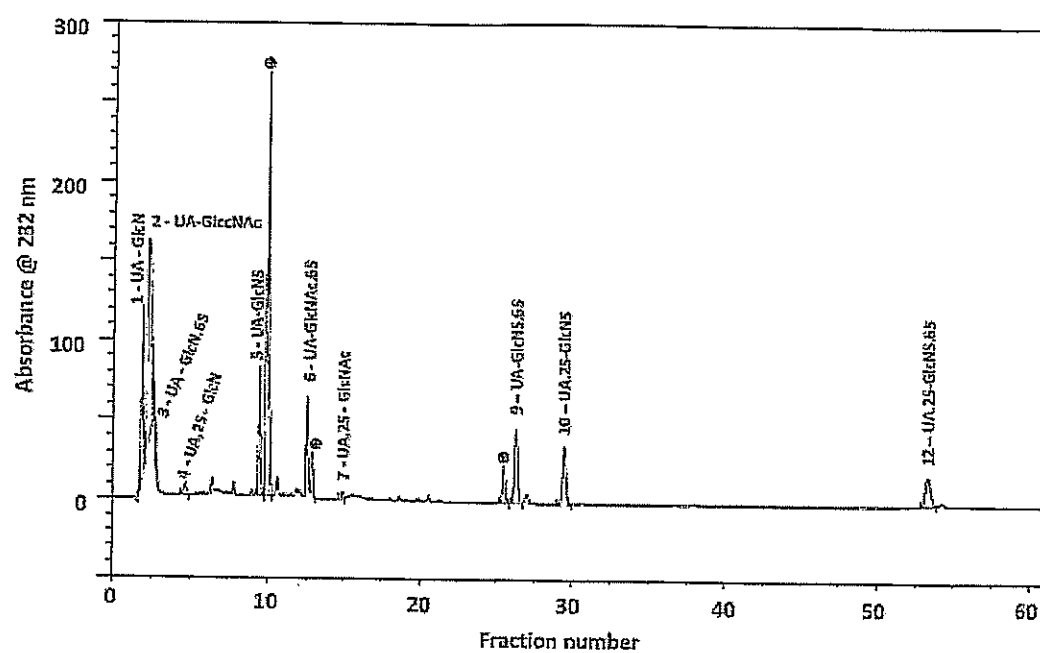


Figure 42

S.NO.	HS - Standards	BMP2 - Specific HS (%composition)	BMP2 - Non-Specific HS (%composition)	Celsus - HS (%composition)
1	UA - GlcN	8.2	6.5	9.2
2	UA - GlcNAc	17.5	6.1	27.5
3	UA - GlcN,6S	3.7	1.8	1.0
4	UA ₂ S - GlcN	4.5	11.8	1.9
5	UA - GlcNS	16.2	21.9	7.1
6	UA - GlcNAc,6S	--	3.3	5.4
7	UA ₂ S - GlcNAc	--	3.3	0.5
8	UA ₂ S - GlcN,6S	--	--	--
9	UA - GlcNS,6S	--	0.4	7.1
10	UA ₂ S - GlcNS	--	--	6.1
11	UA ₂ S - GlcNAc,6S	--	--	--
12	UA ₂ S - GlcNS,6S	0.5	--	4.6
	Unknown	49.4	45.3	30.0

Figure 43

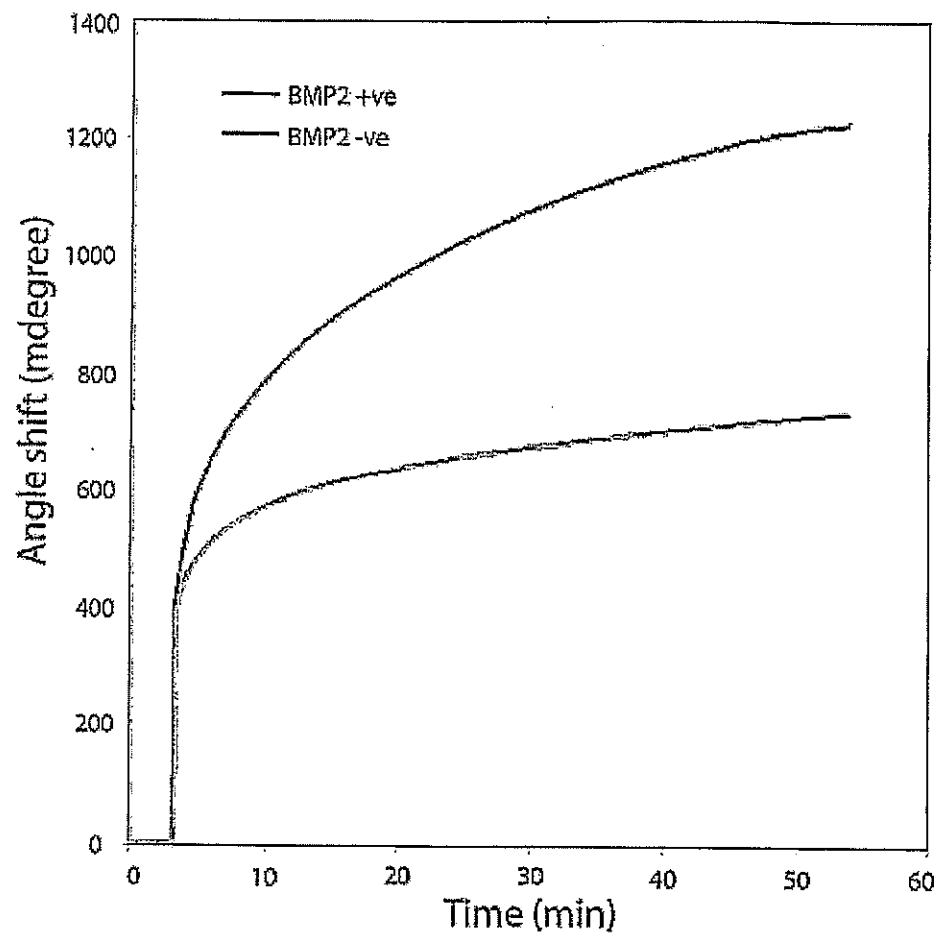


Figure 44

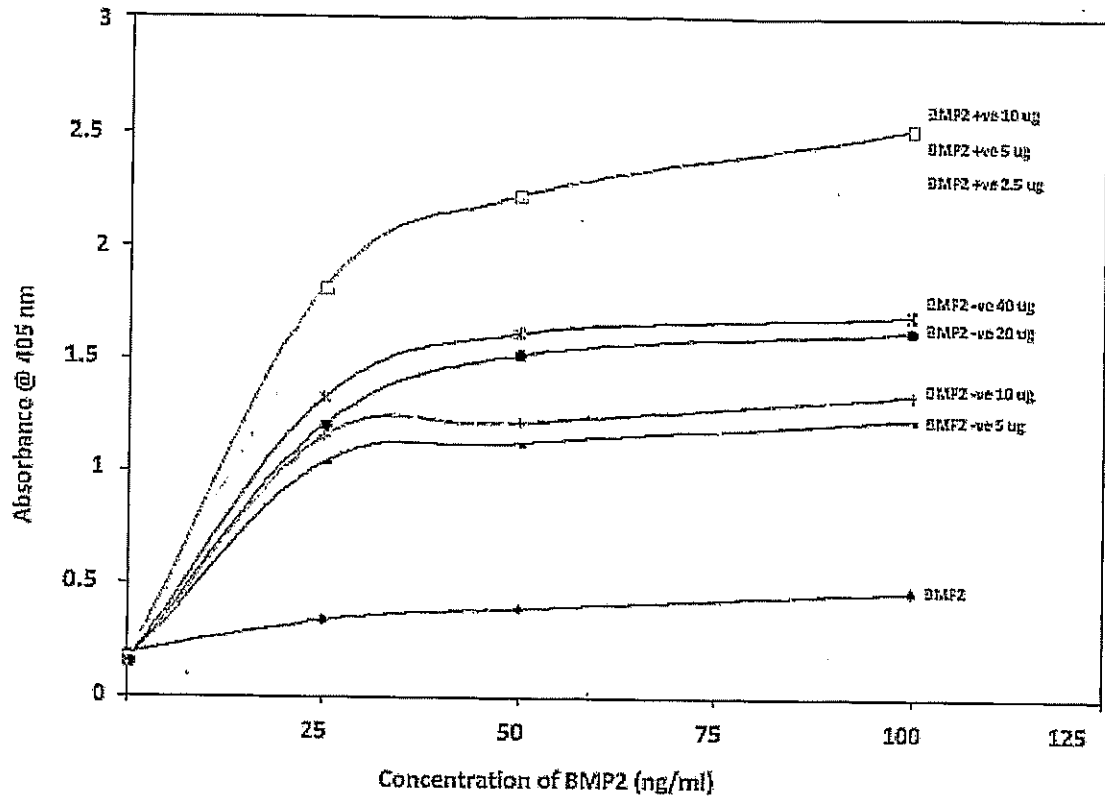


Figure 45

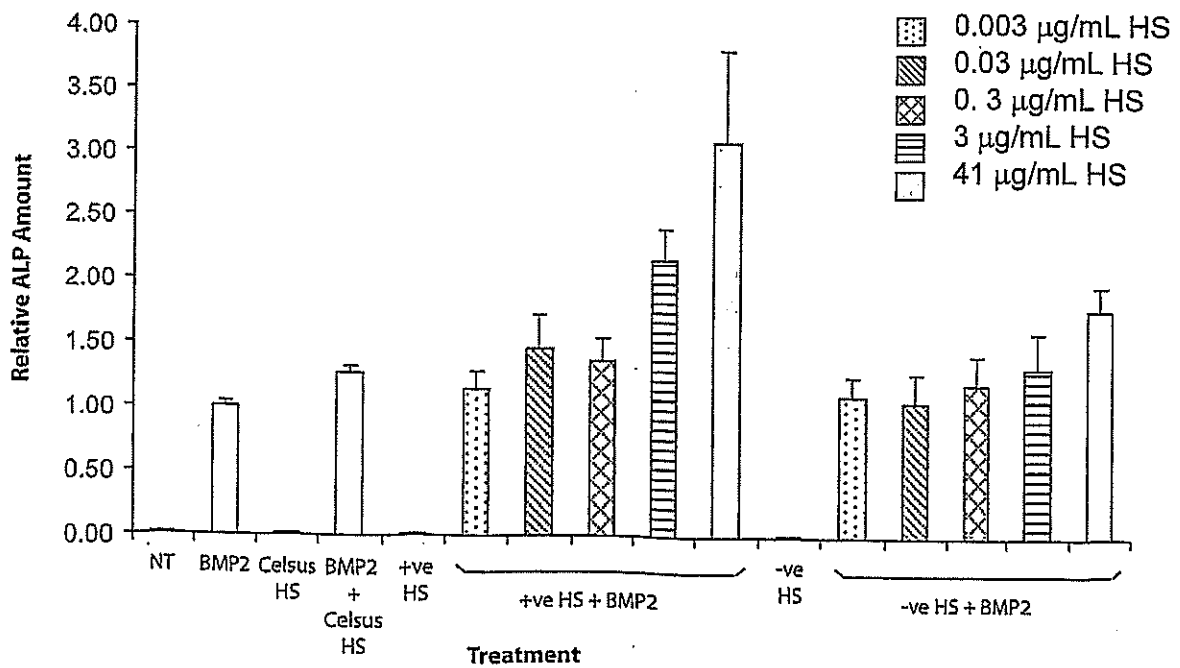


Figure 46

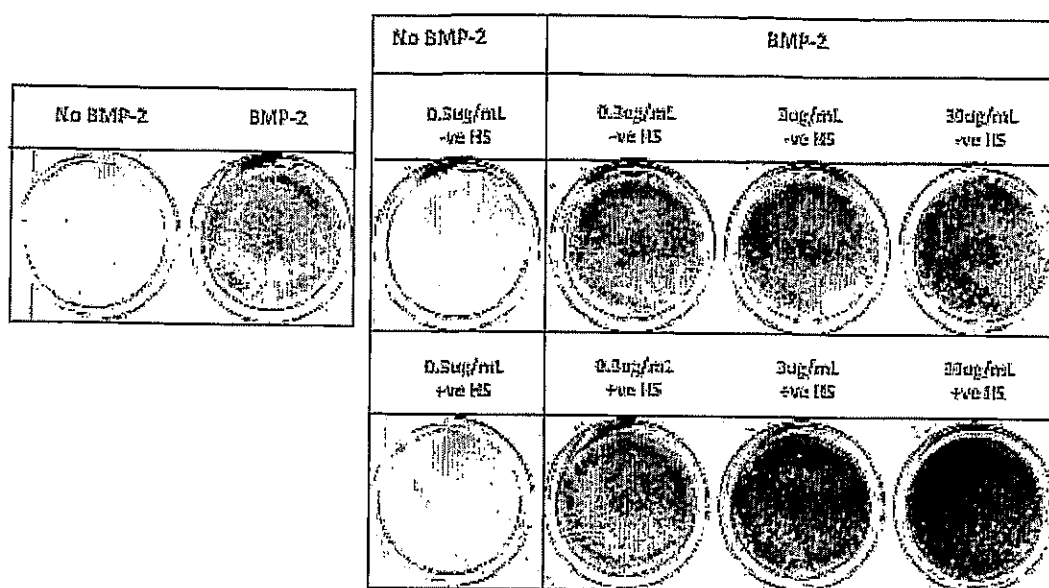


Figure 47

Figure 48

Selectively De-sulfated Heparins

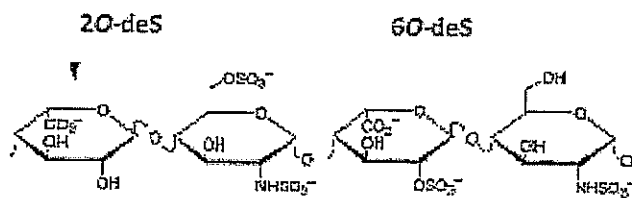
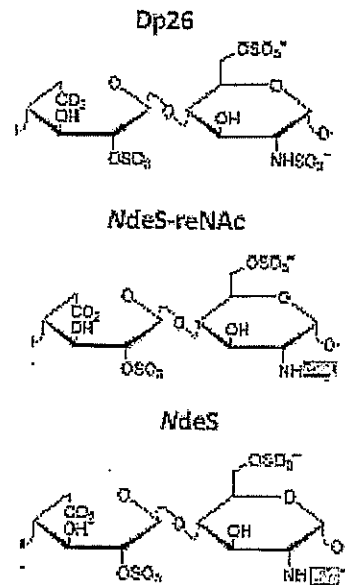
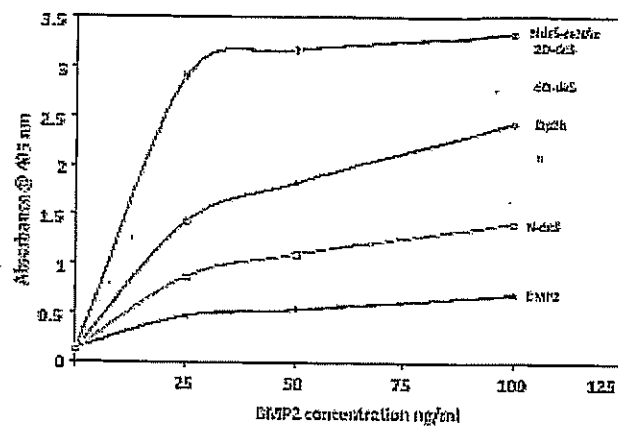


Figure 49

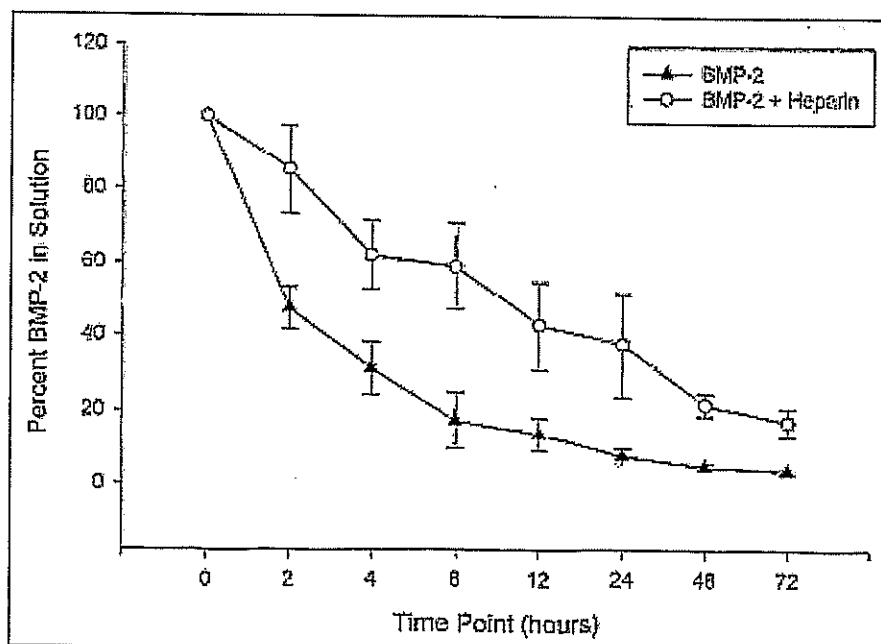


Figure 50

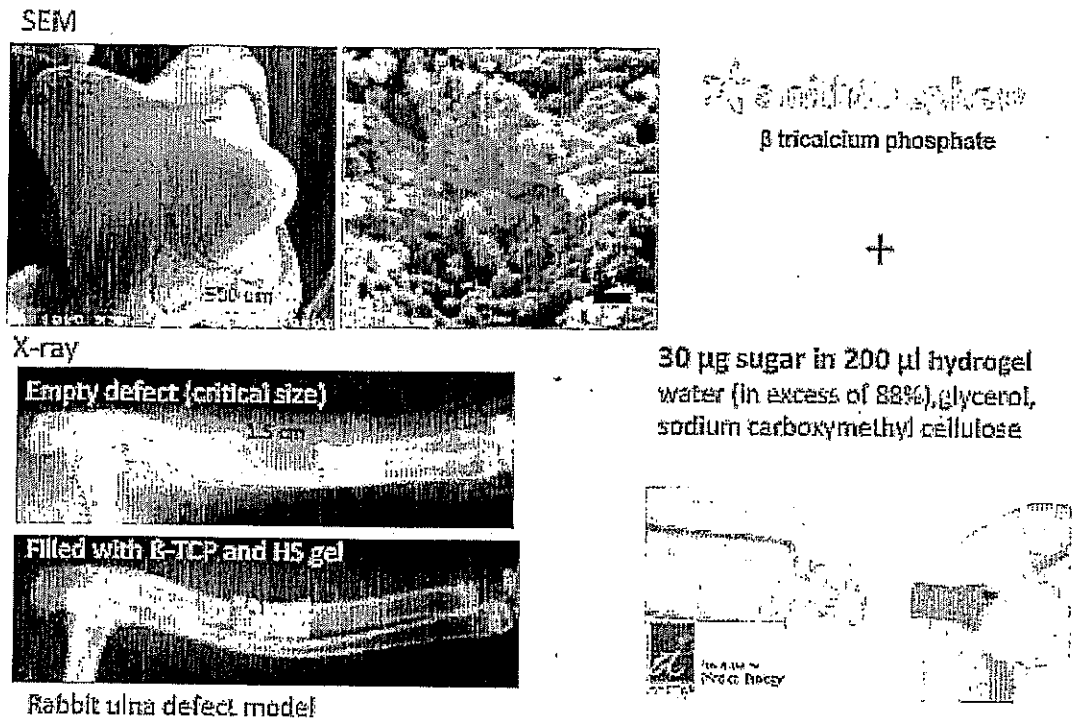


Figure 51

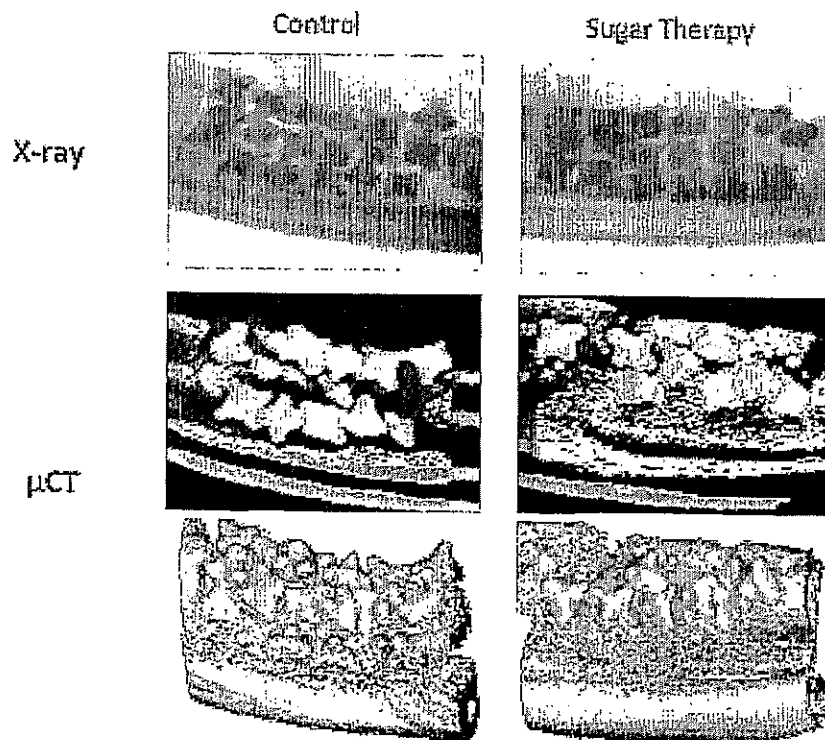


Figure 52

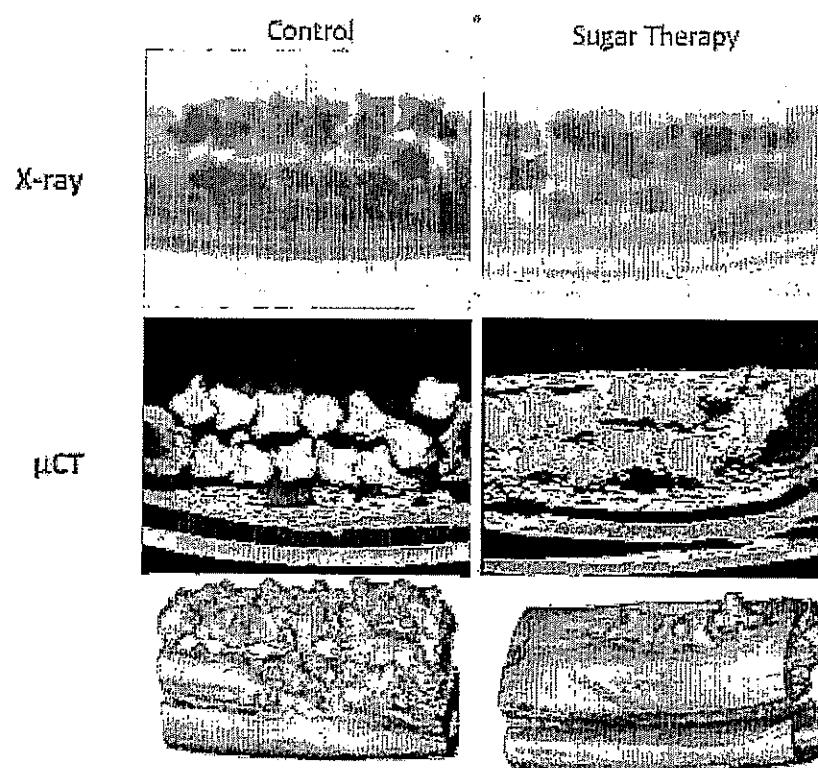


Figure 53

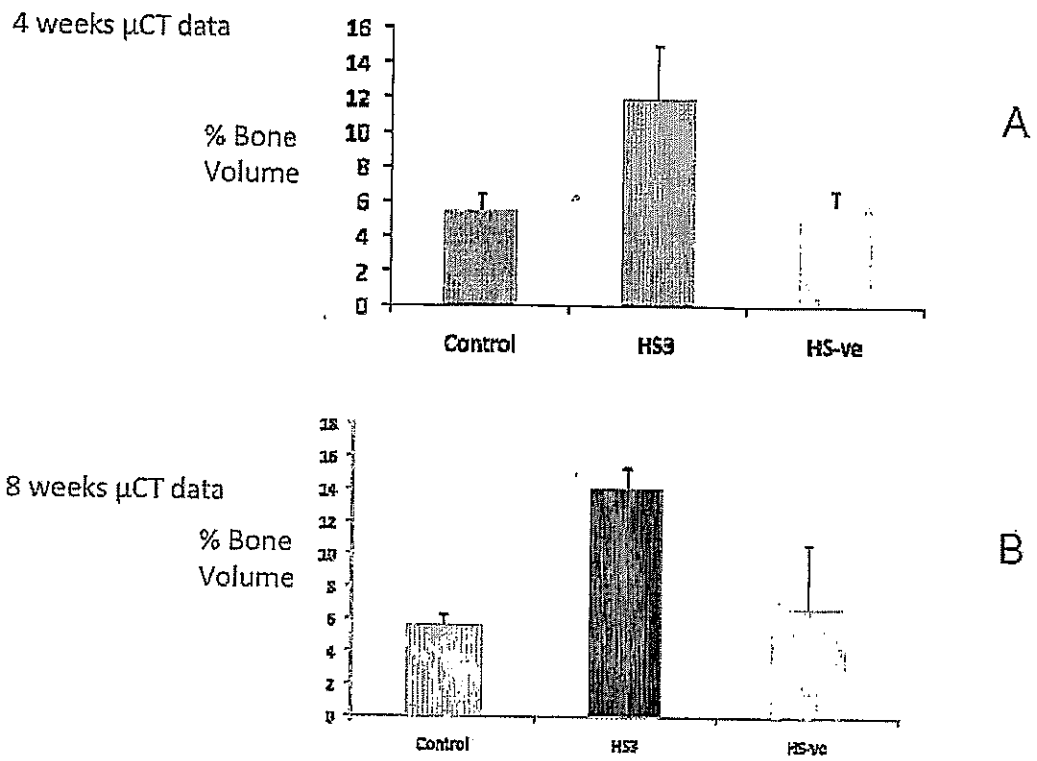


Figure 54

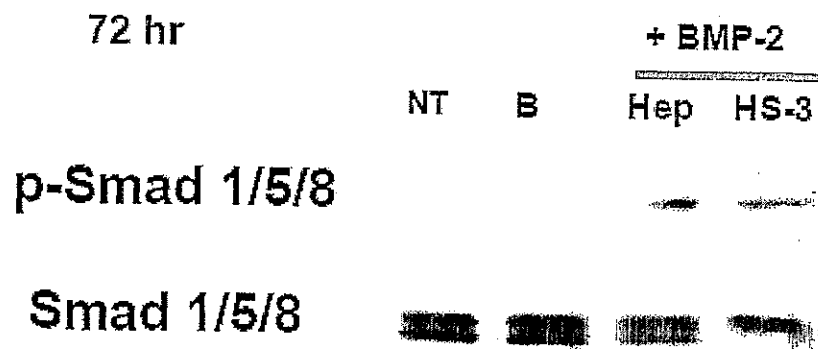


Figure 55

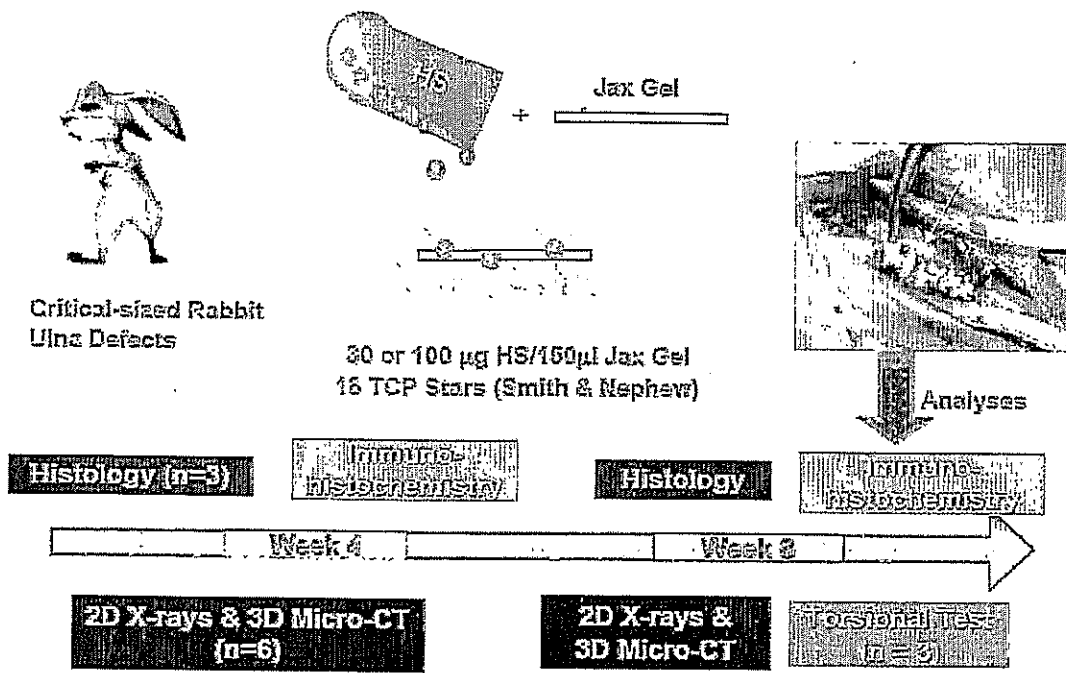


Figure 56

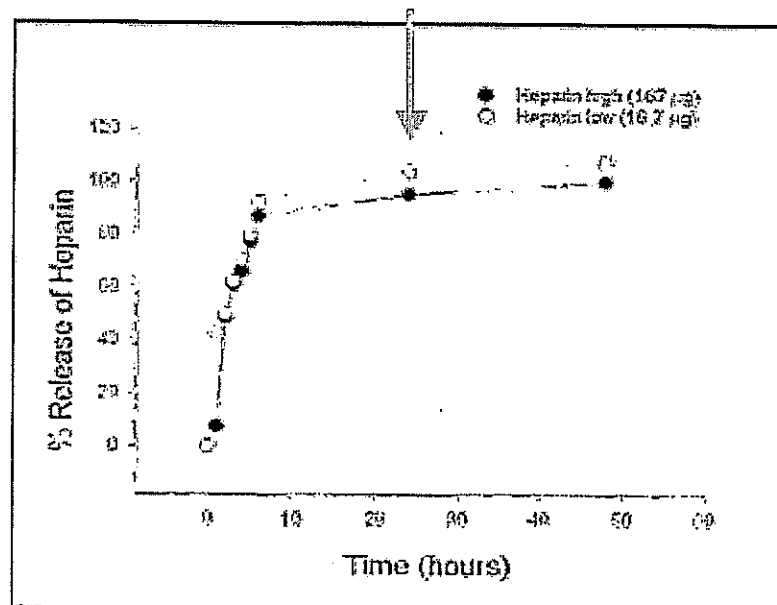


Figure 57

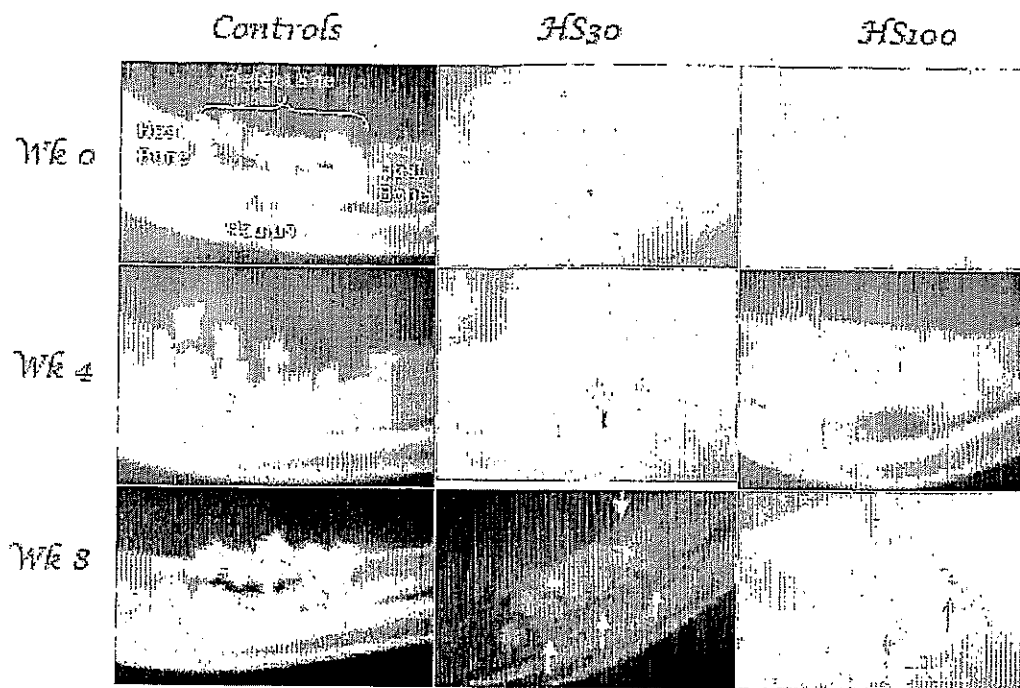


Figure 58

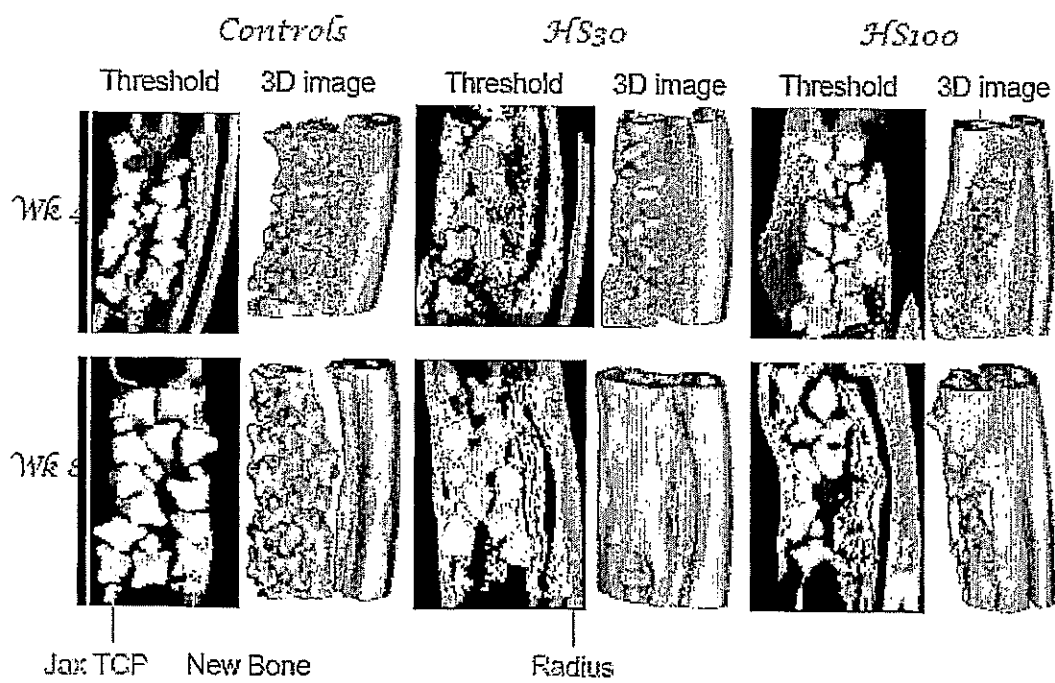


Figure 59

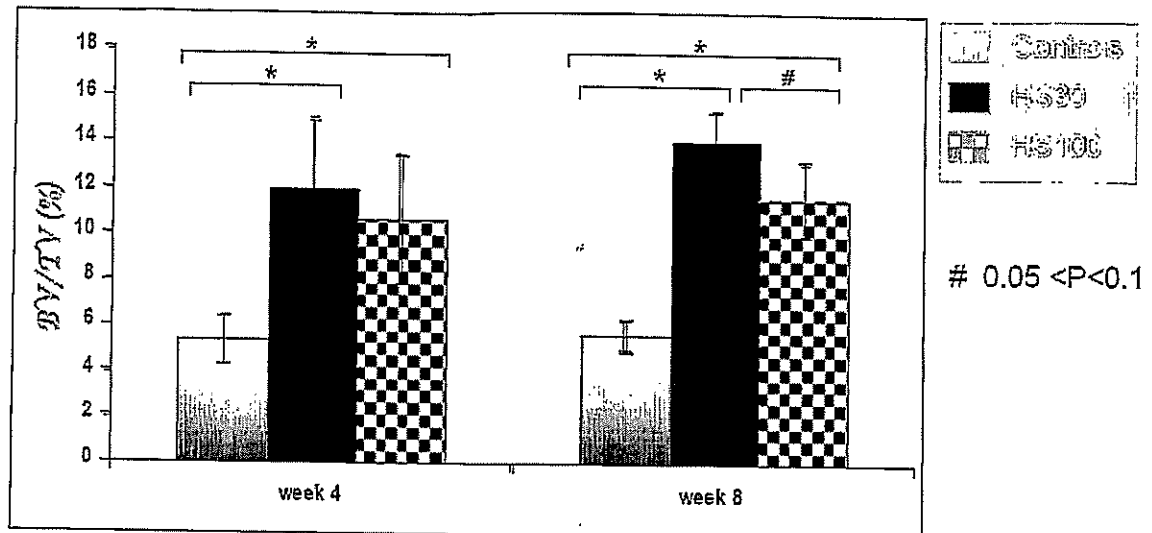


Figure 60

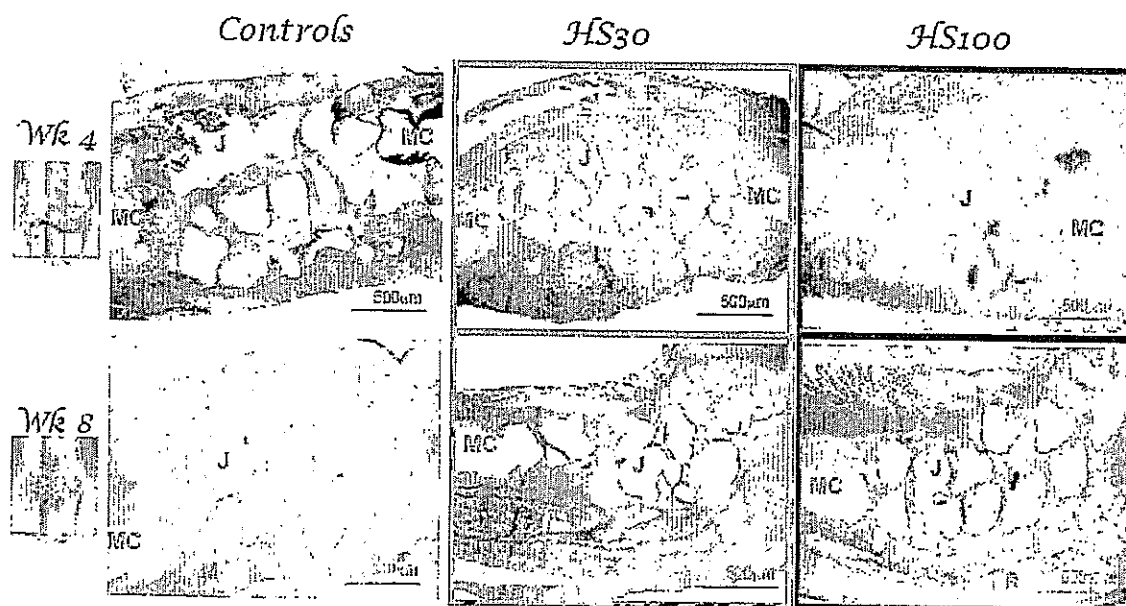


Figure 61

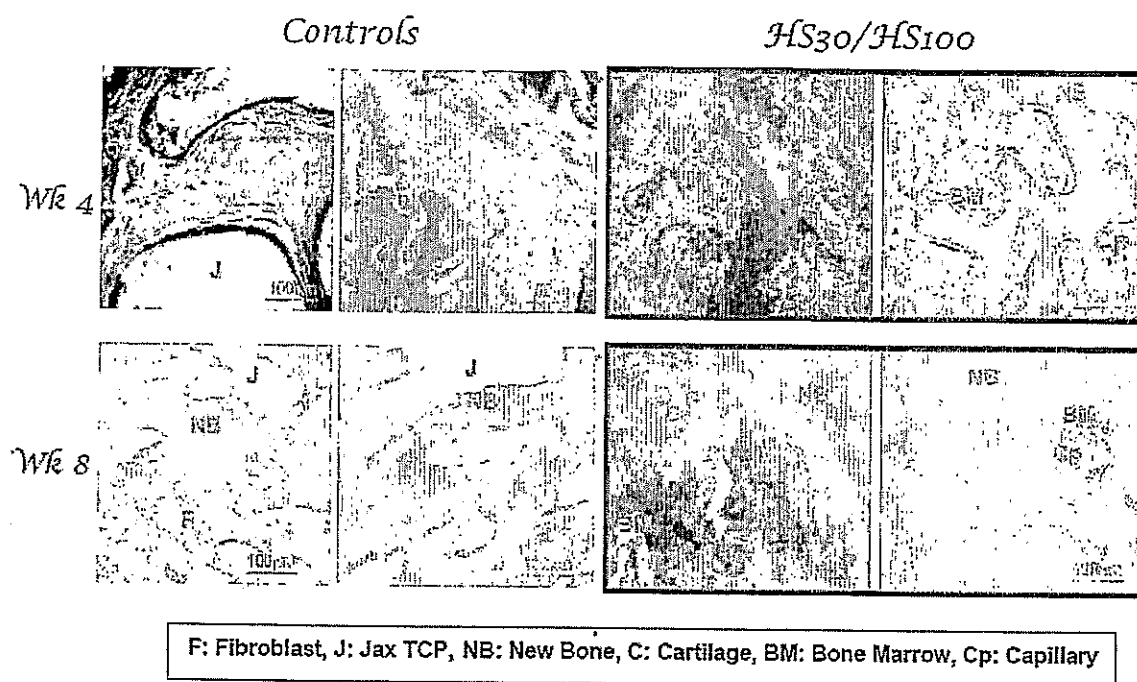


Figure 62

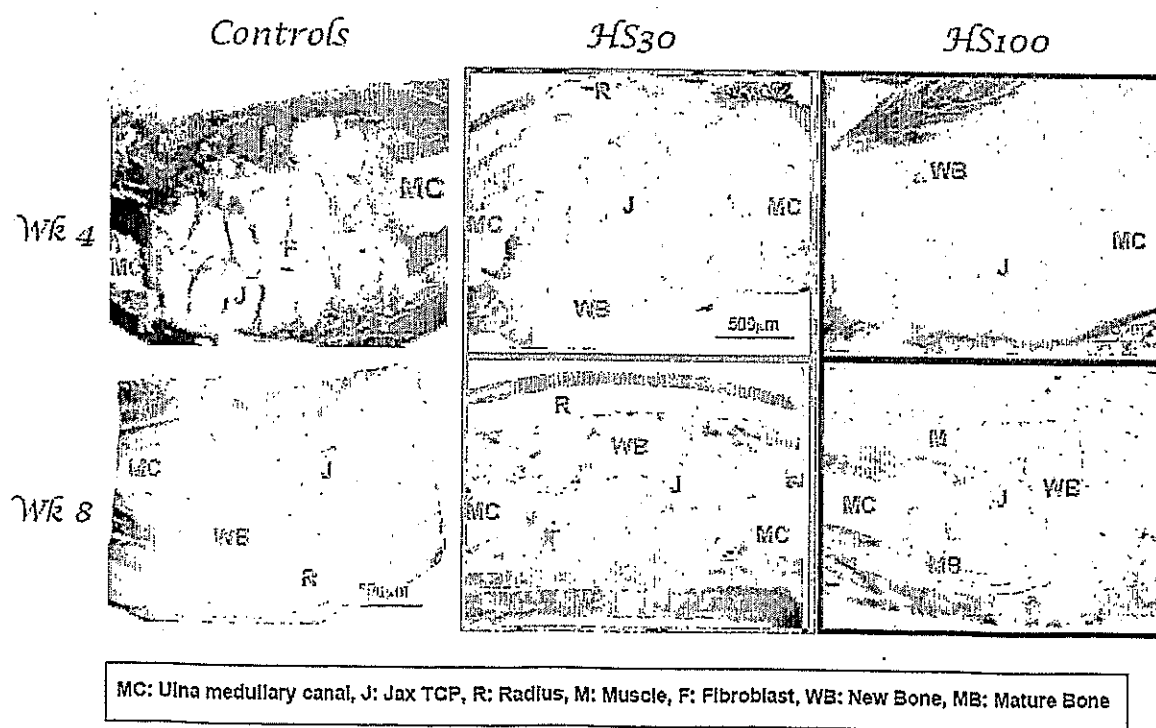


Figure 63

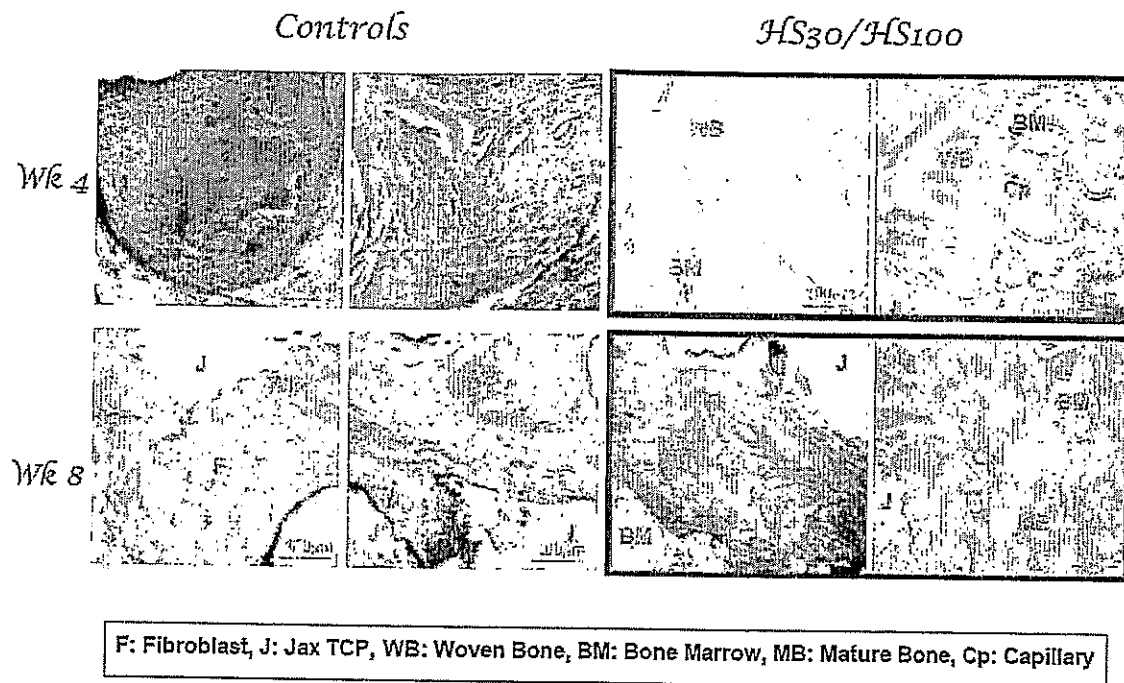


Figure 64

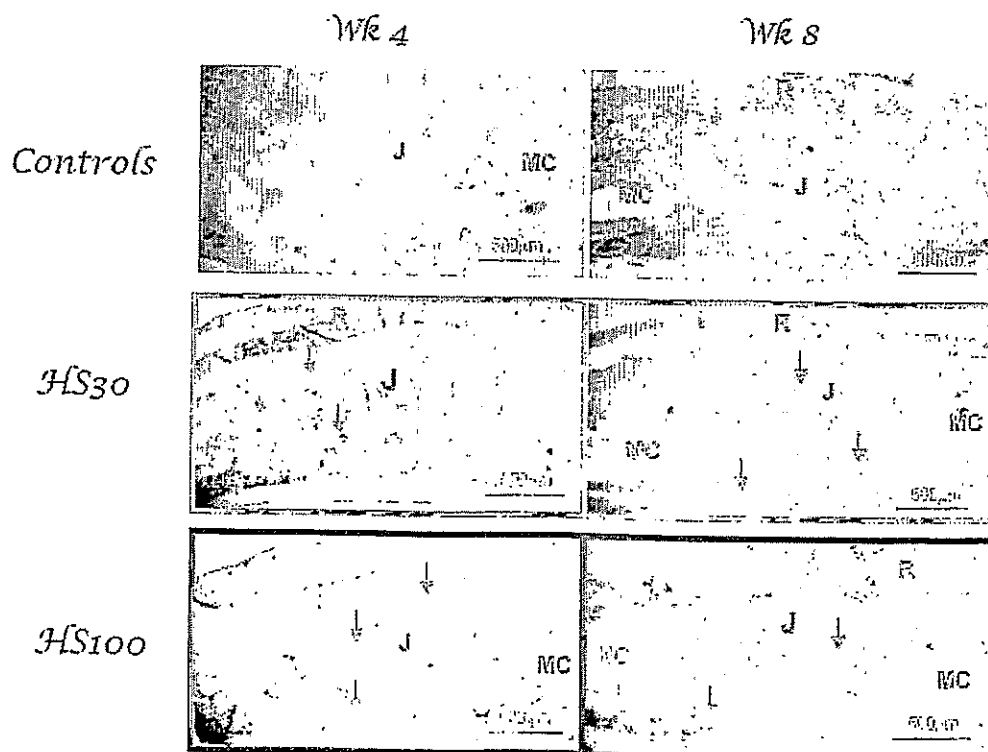


Figure 65

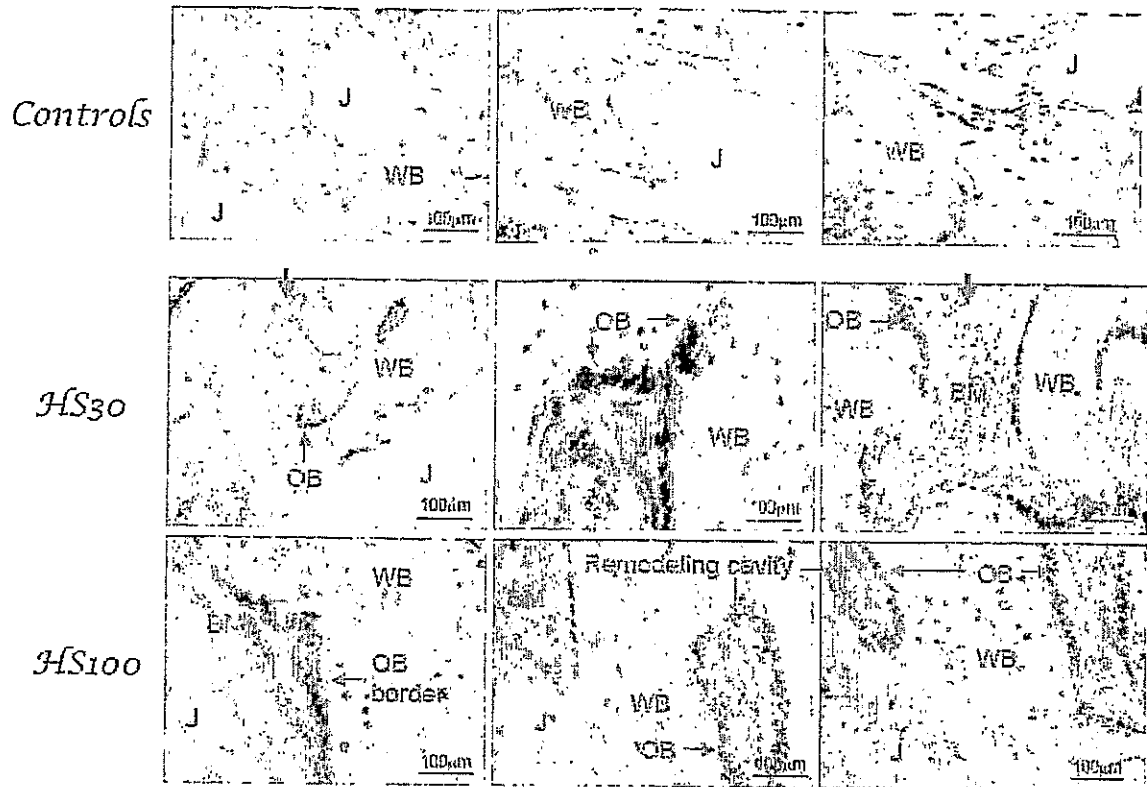


Figure 66

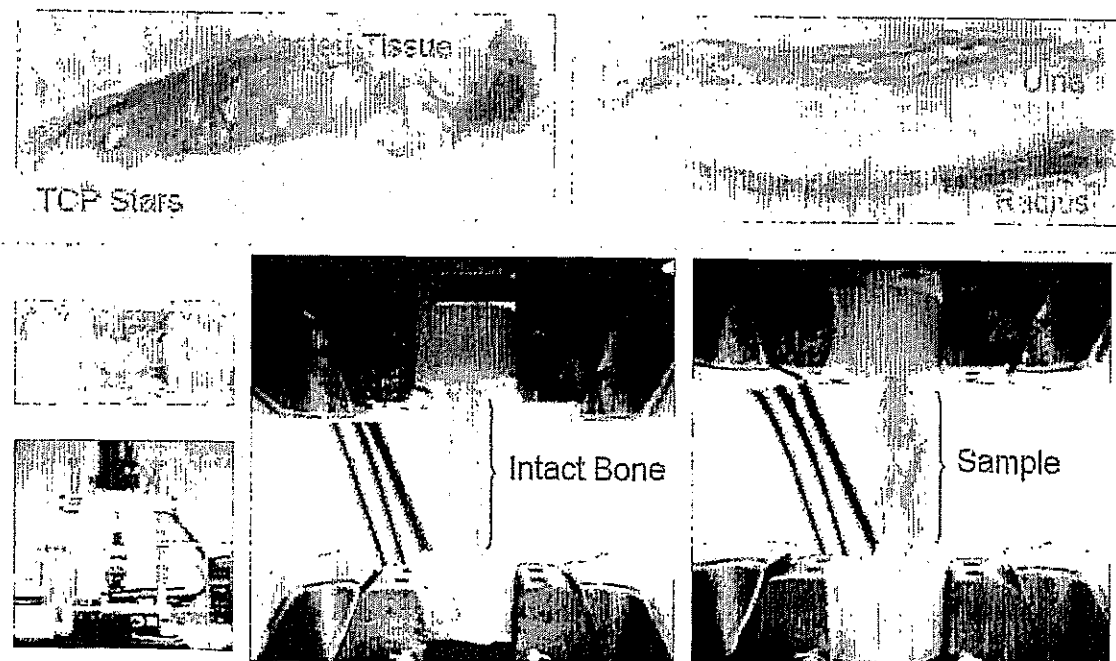


Figure 67

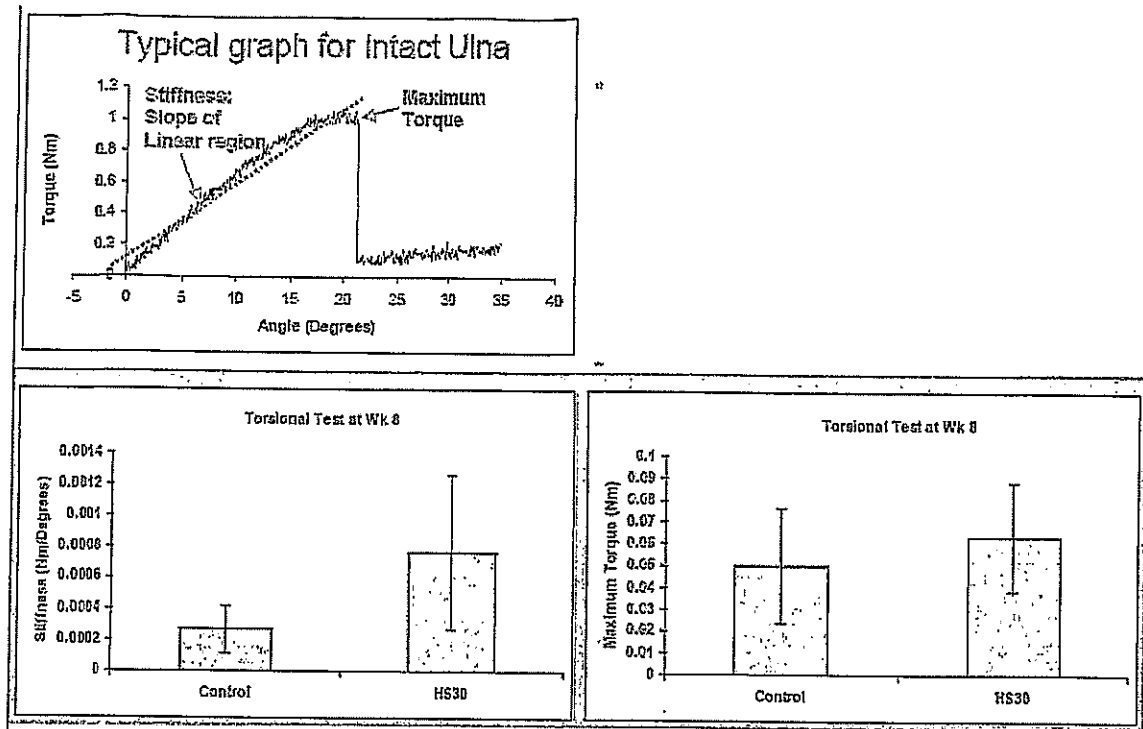


Figure 68

0 weeks

Control

HS3

BMP-2

HS3+BMP-2

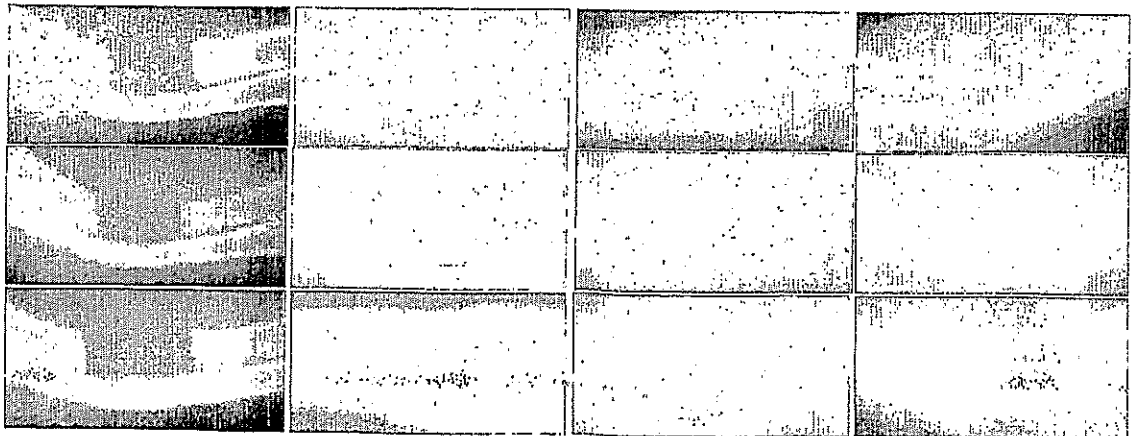


Figure 69

4 weeks

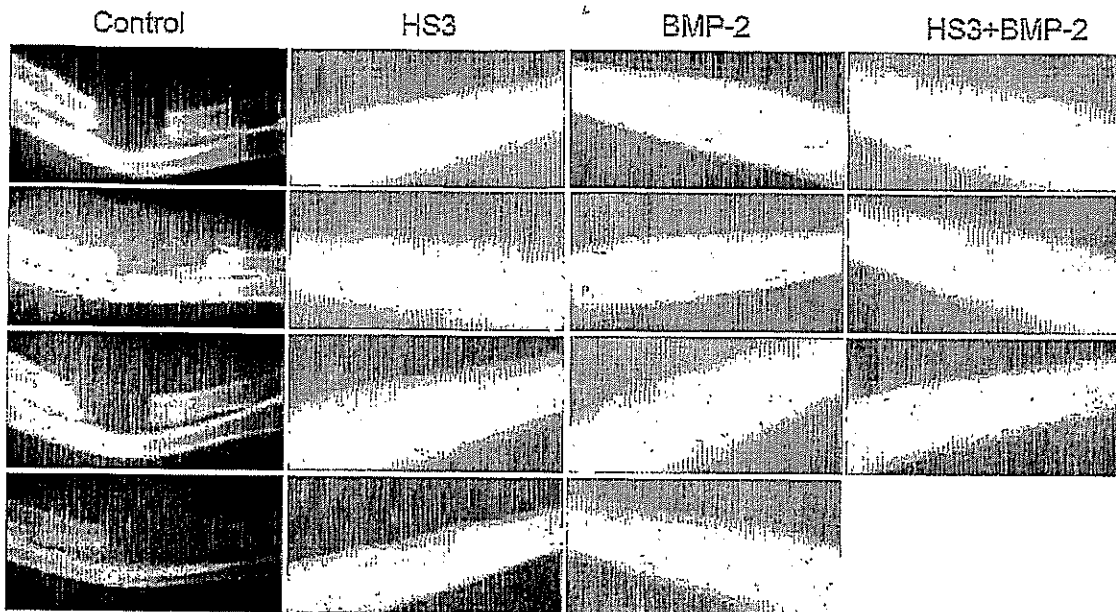


Figure 70

8 weeks

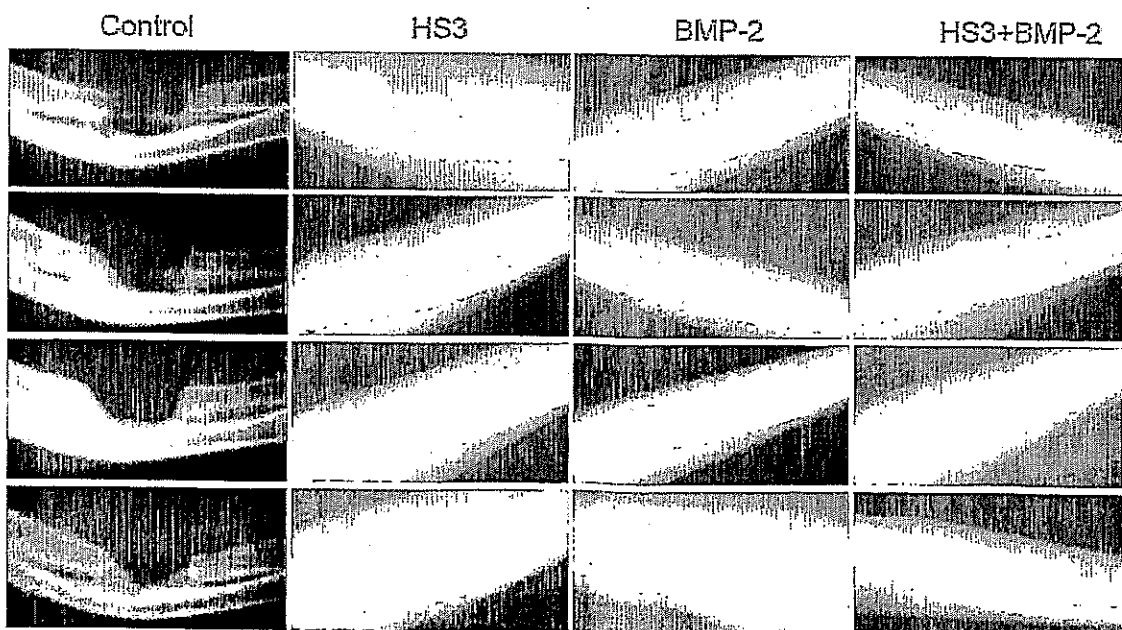


Figure 71

μ CT analysis of HS3 on Collagen I
(Heliostat)

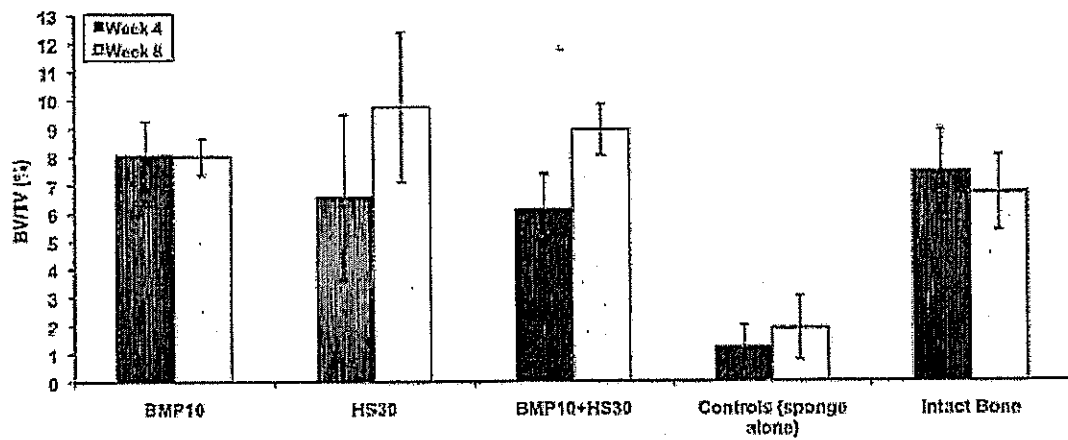


Figure 72

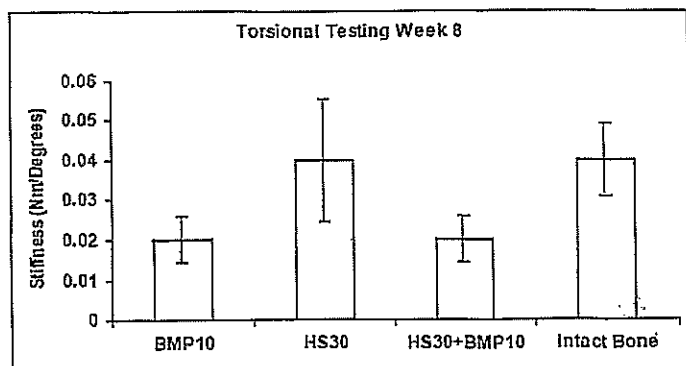
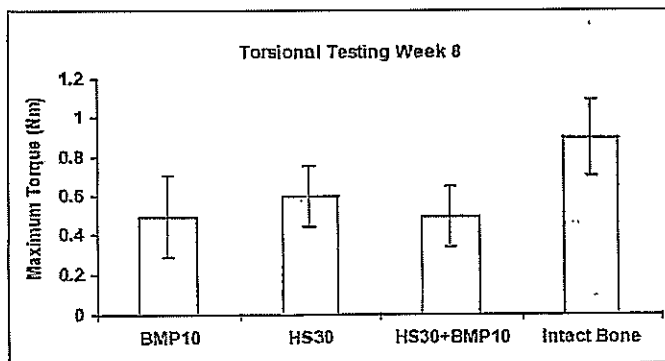


Figure 73

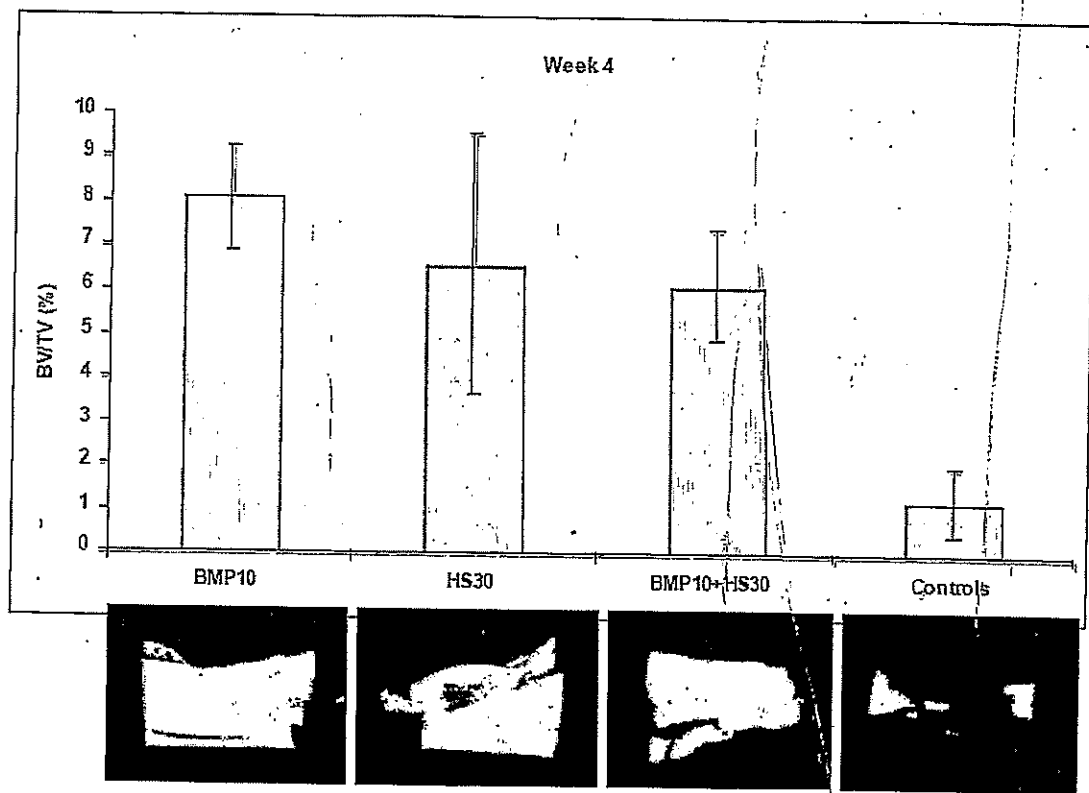


Figure 74

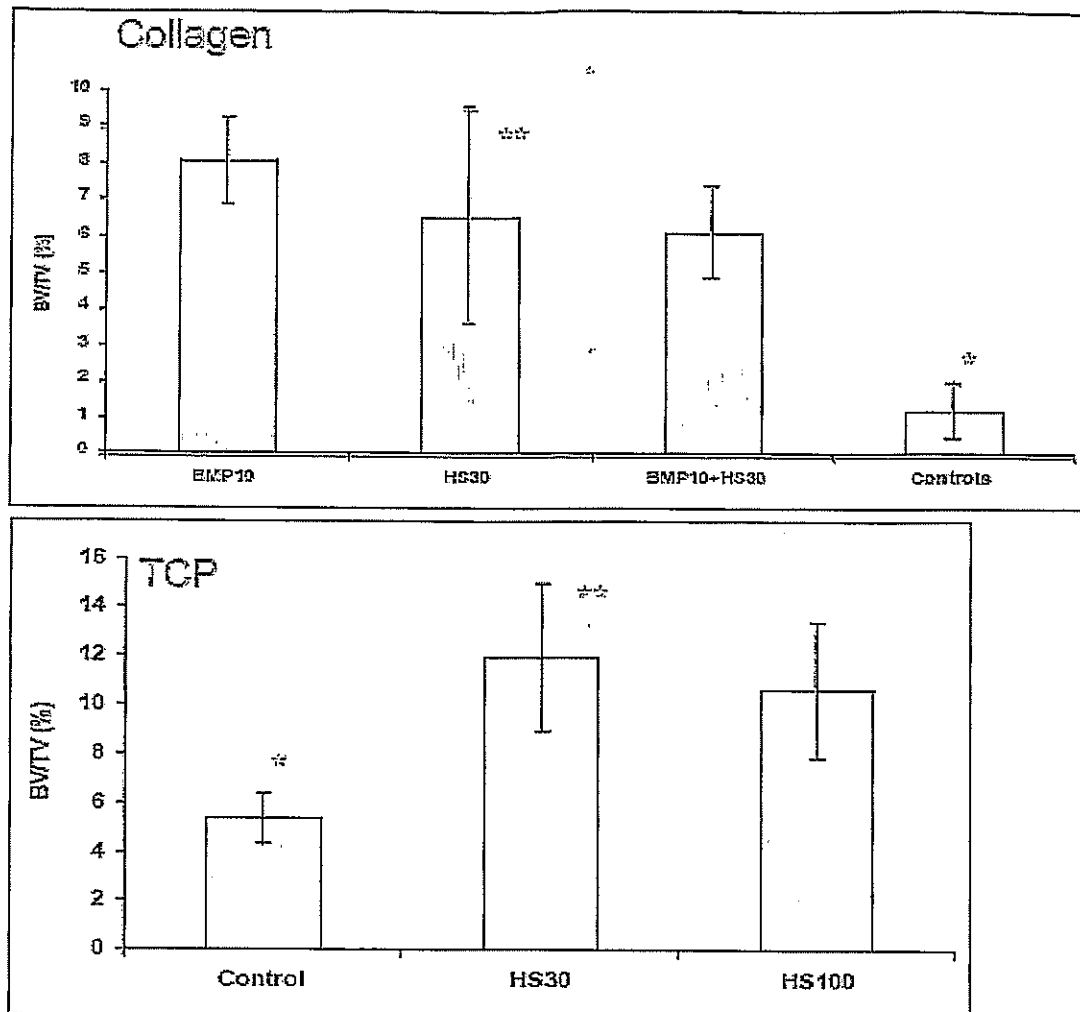


Figure 75