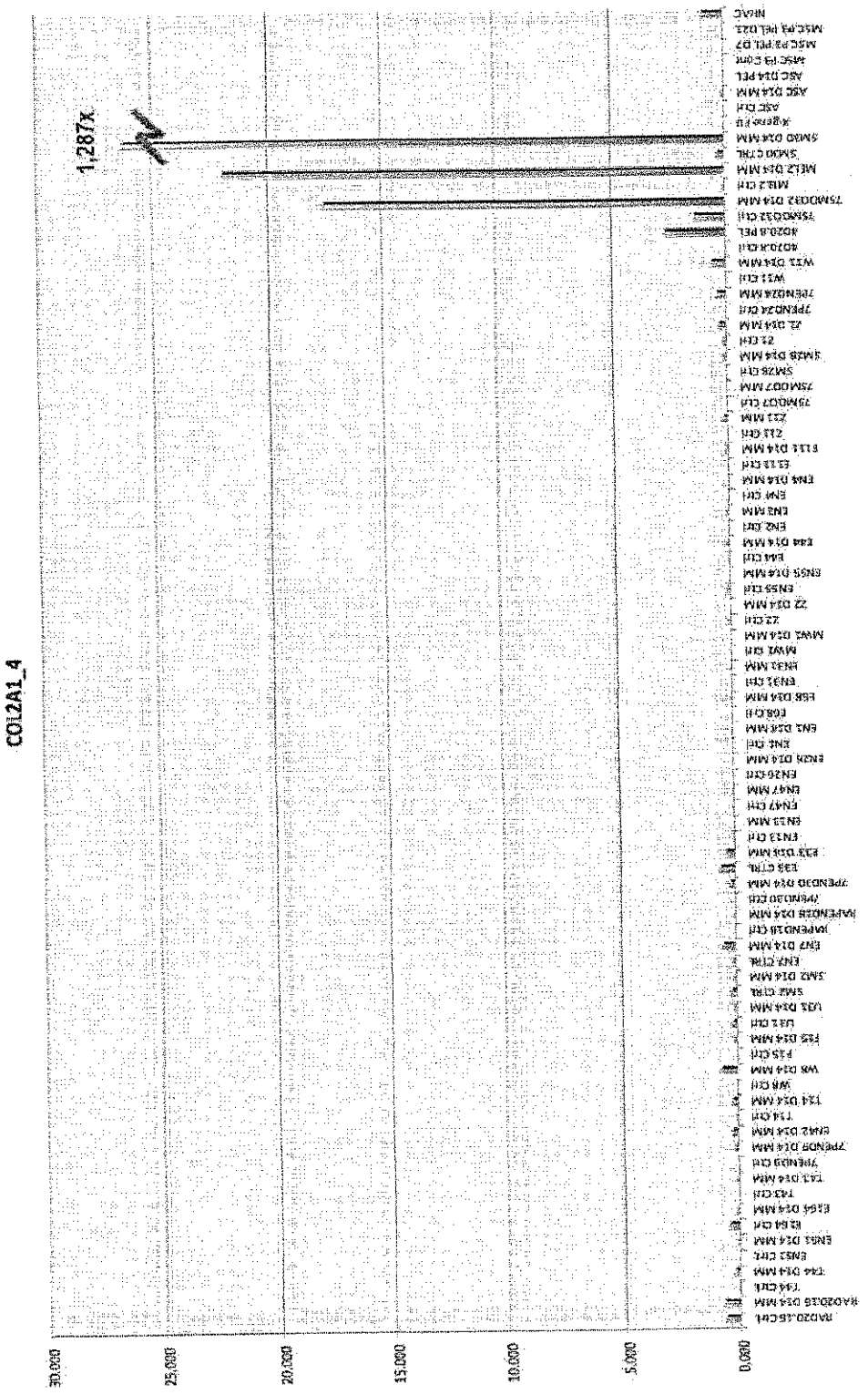


Fig. 1

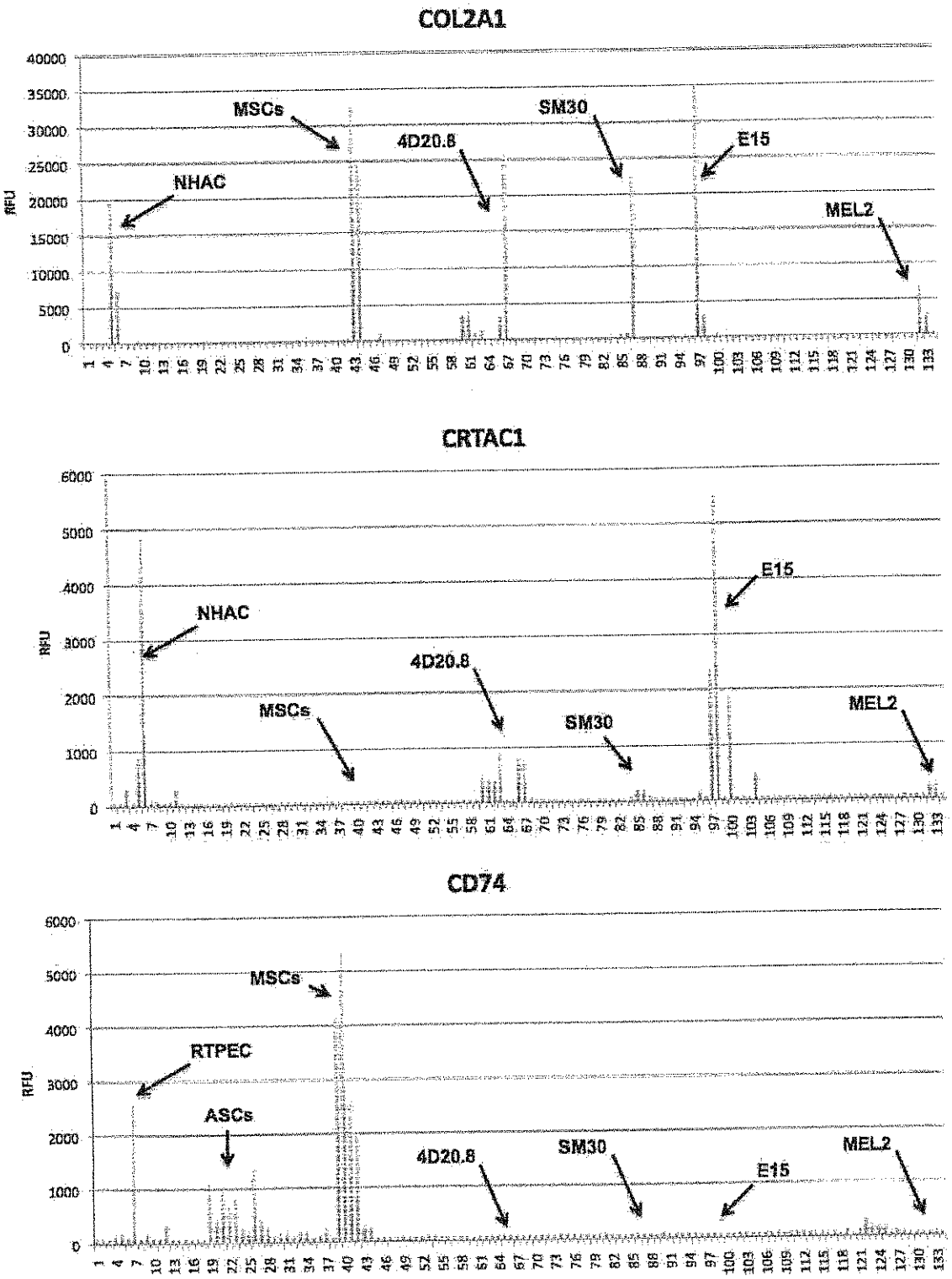

COL2A1
RFU
MSCs
SM30
4D20.8
E15
NHAC
MEL2
CRTAC1
RFU
E15
NHAC
4D20.8
MSCs
SM30
MEL2
CD74
RFU
MSCs
RTPEC
ASCs
4D20.8
SM30
E15
MEL2

Fig. 2A

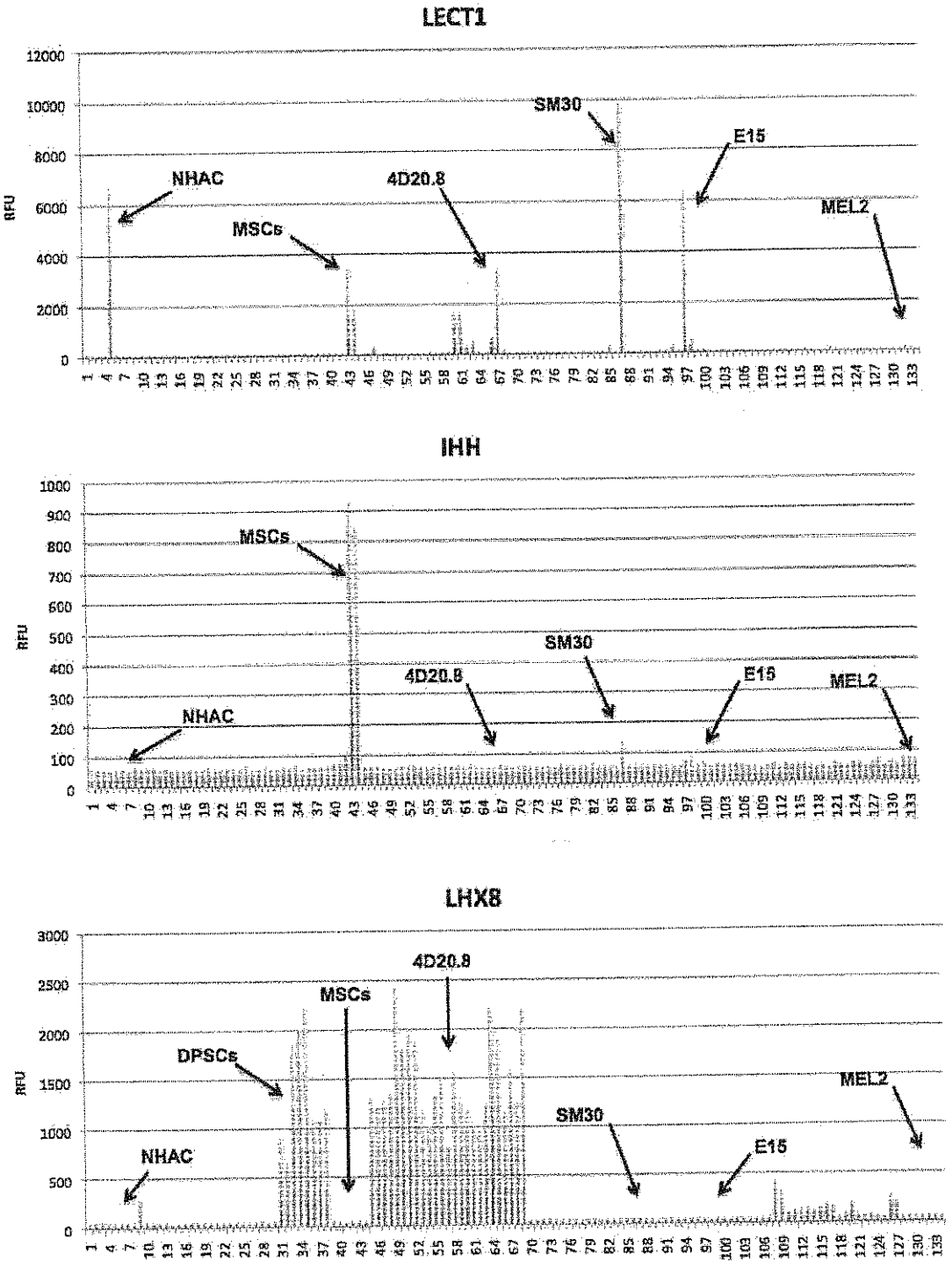

LECT1
RFU
12000
10000
8000
6000
4000
2000
0
SM30
E15
NHAC
4D20.8
MEL2
MSCs
IHH
RFU
1000
900
800
700
600
500
400
300
200
100
0
MSCs
SM30
4D20.8
E15
MEL2
NHAC
LHX8
RFU
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2500
2000
1500
1000
500
0
4D20.8
MSCs
DPSCs
MEL2
SM30
E15
NHAC

Fig. 2B

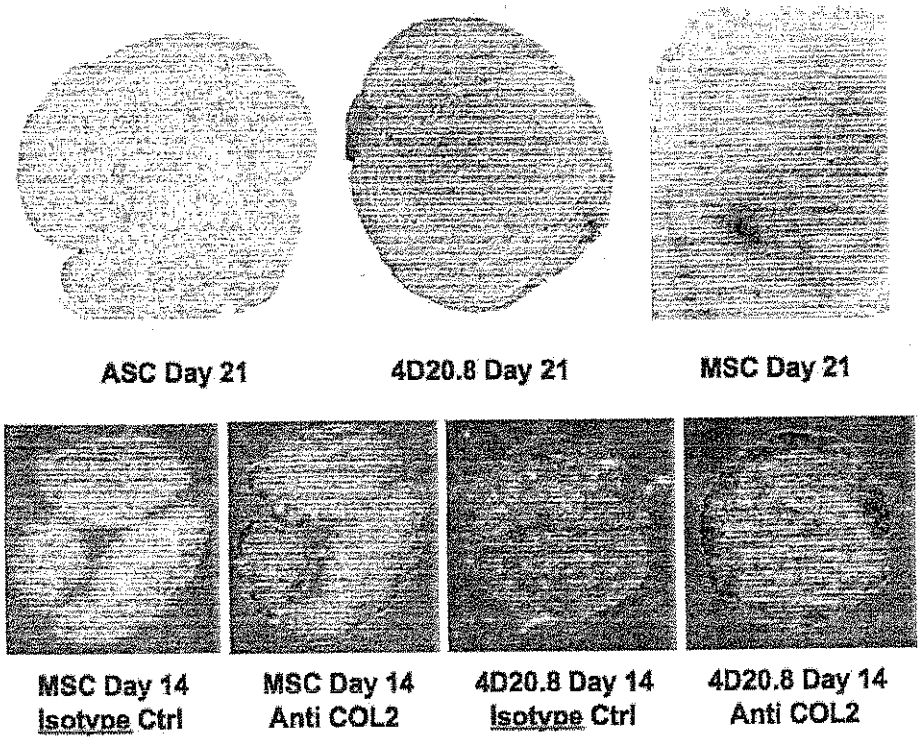
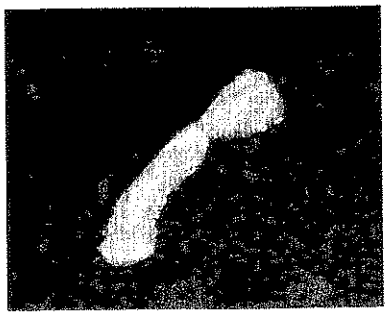
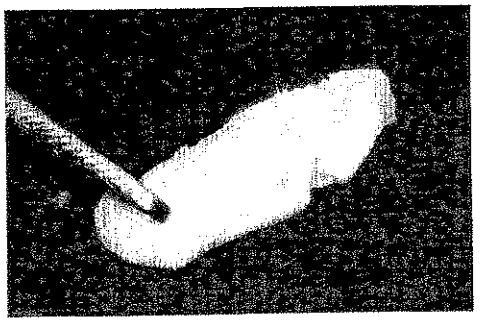

ASC Day 21
4D20.8 Day 21
MSC Day 21
MSC Day 14 Isotype Ctrl
MSC Day 14 Anti COL2
4D20.8 Day 14 Isotype Ctrl
4D20.8 Day 14 Anti COL2

Fig. 3

A. 4D20.8: excised RGD-alginate implant



initial excised implant

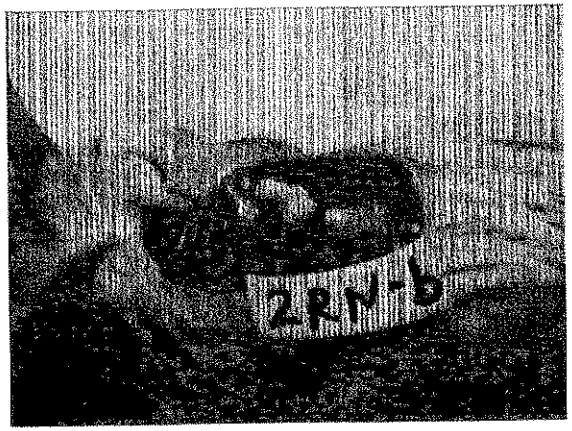


trimmed excised implant

B.



SM30 encapsulated in RGD Alginate



E15 encapsulated in RGD Alginate

Fig. 4

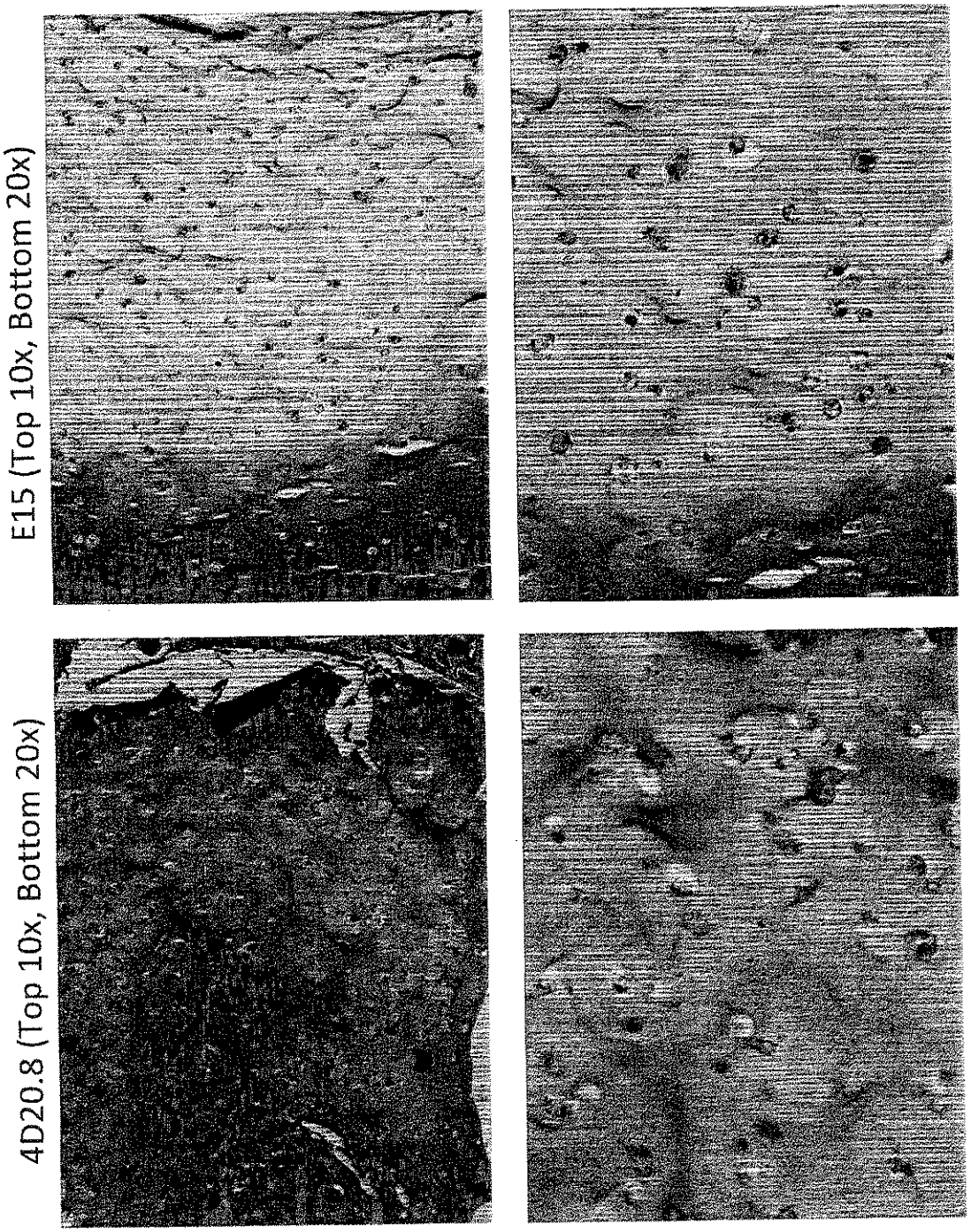


Fig. 5