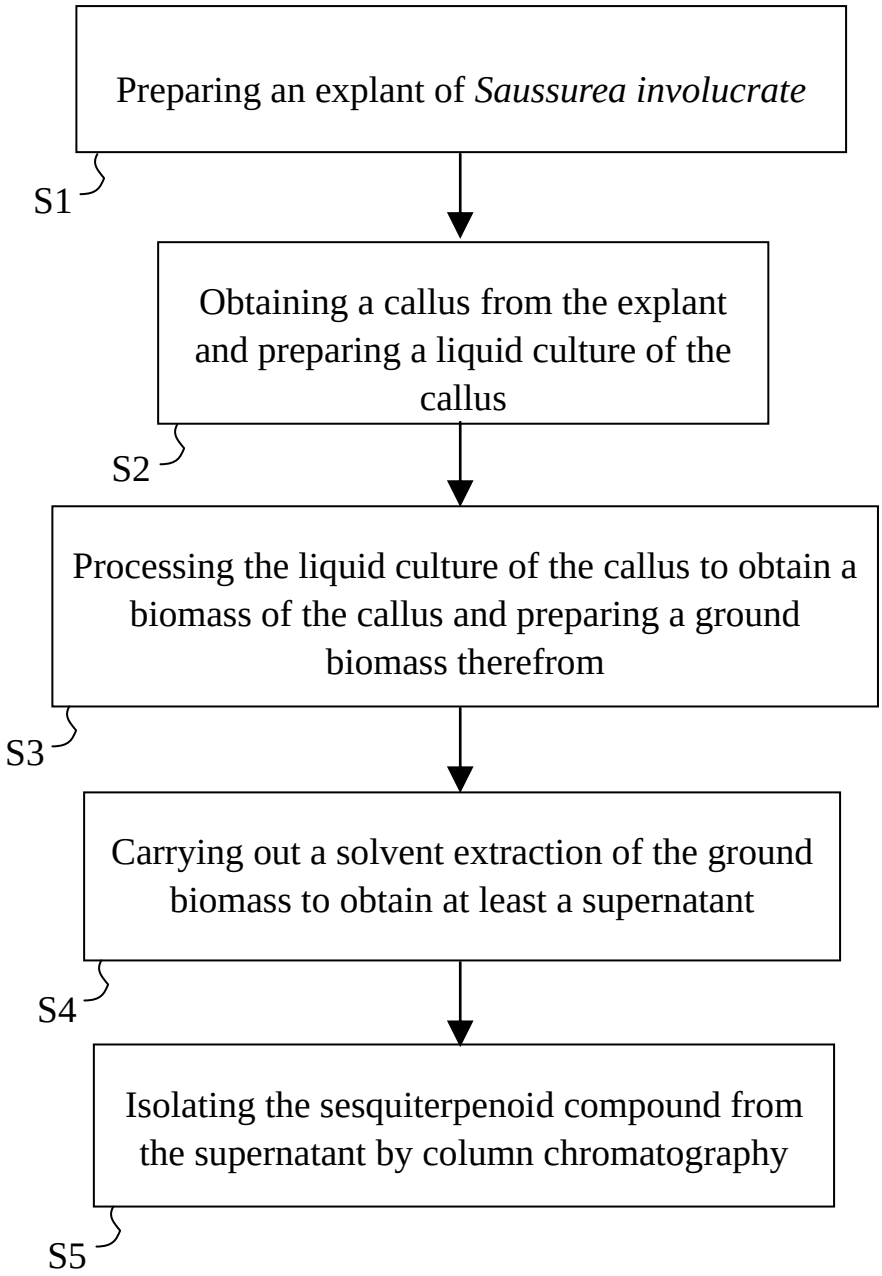

Preparing an explant of *Saussurea involucrate*
S1
Obtaining a callus from the explant and preparing a liquid culture of the callus
S2
Processing the liquid culture of the callus to obtain a biomass of the callus and preparing a ground biomass therefrom
S3
Carrying out a solvent extraction of the ground biomass to obtain at least a supernatant
S4
Isolating the sesquiterpenoid compound from the supernatant by column chromatography
S5

FIG. 1

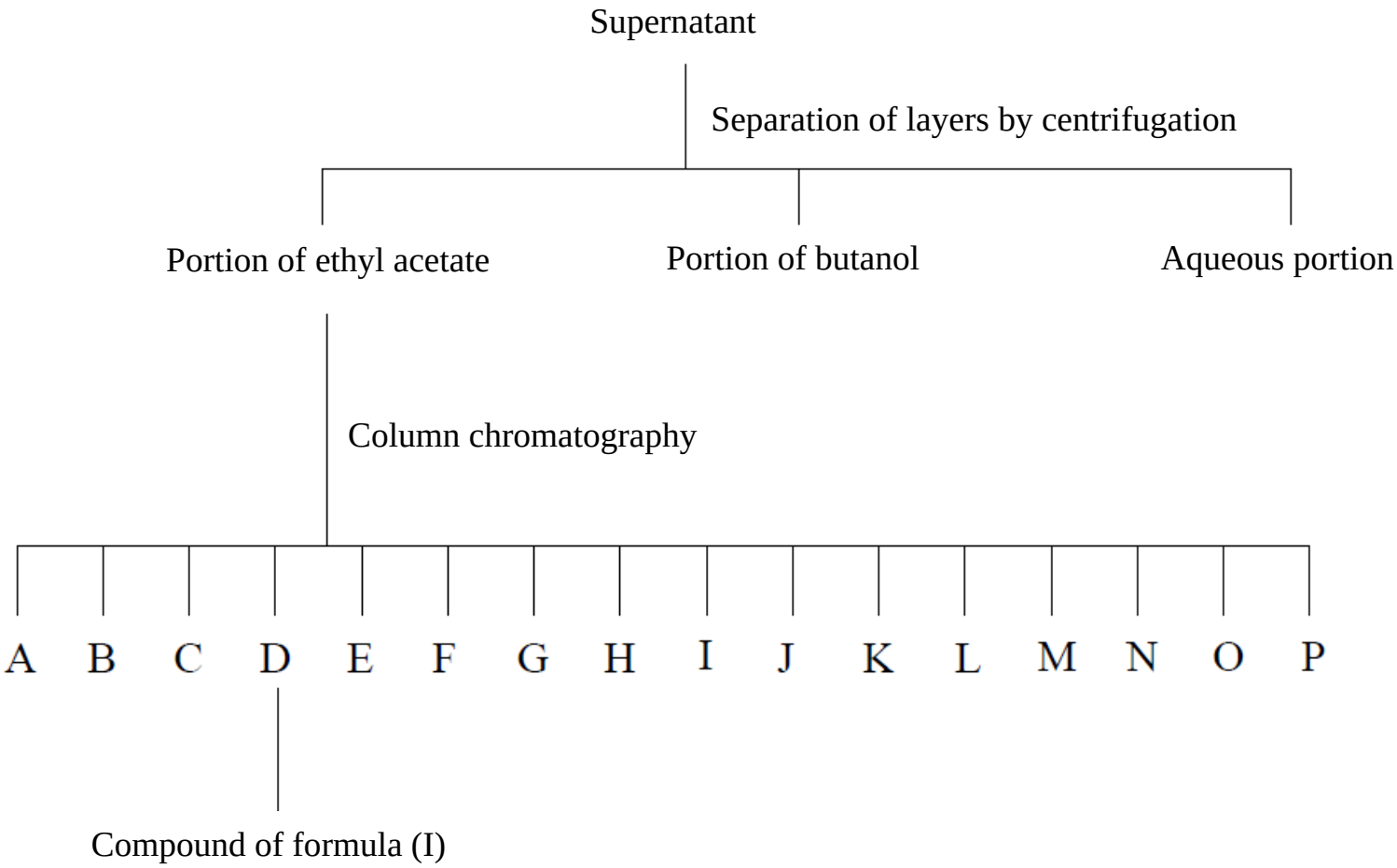

Supernatant
Separation of layers by centrifugation
Portion of ethyl acetate
Portion of butanol
Aqueous portion
Column chromatography
A B C D E F G H I J K L M N O P
Compound of formula (I)

FIG. 2

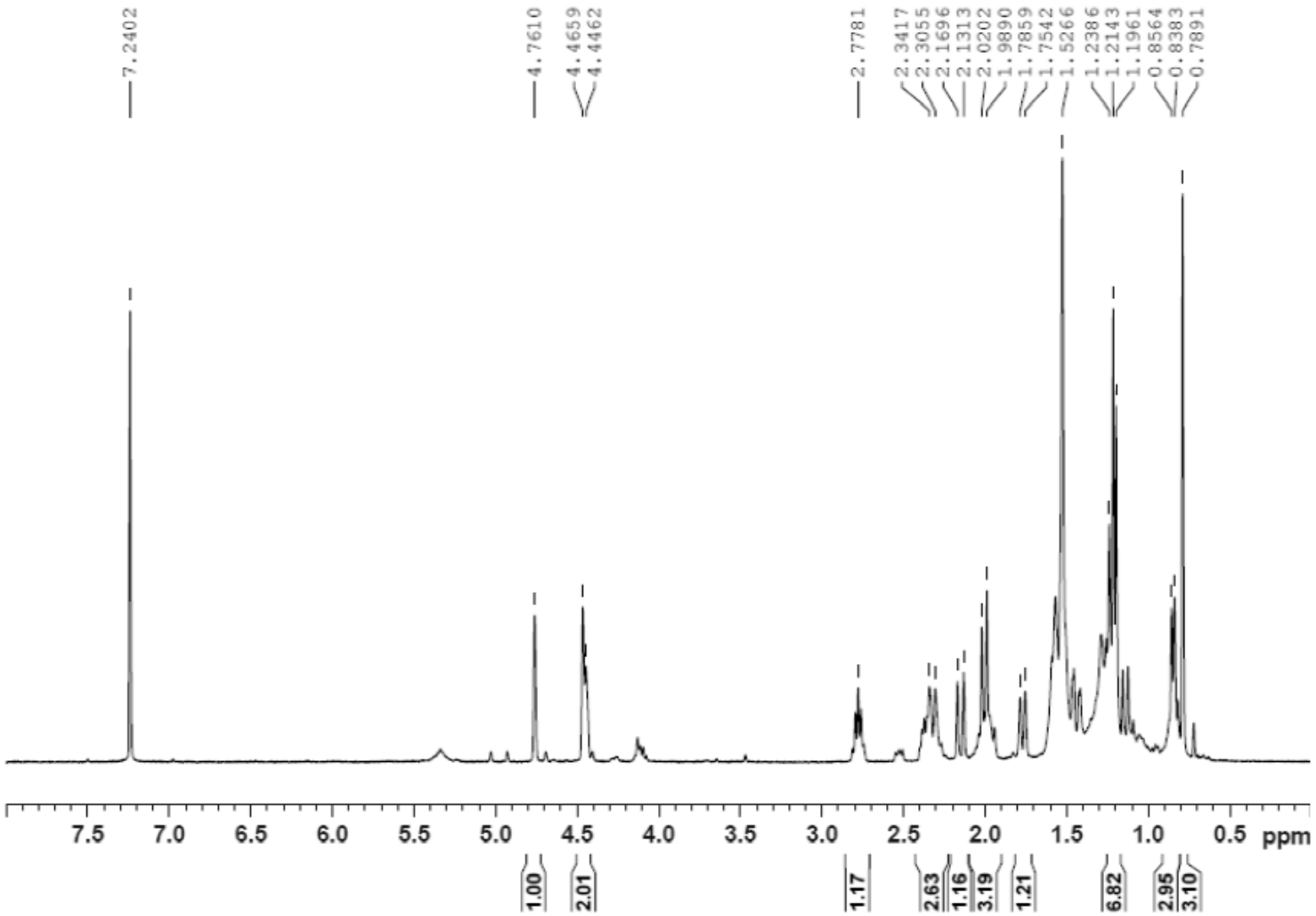

7.2402
4.7610
4.4659
4.4462
2.7781
2.3417
2.3055
2.1696
2.1313
2.0202
1.9890
1.7859
1.7542
1.5266
1.2386
1.2143
1.1961
0.8564
0.8383
0.7891
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
ppm
1.00
2.01
1.17
2.63
1.16
3.19
1.21
6.82
2.95
3.10

FIG. 3A

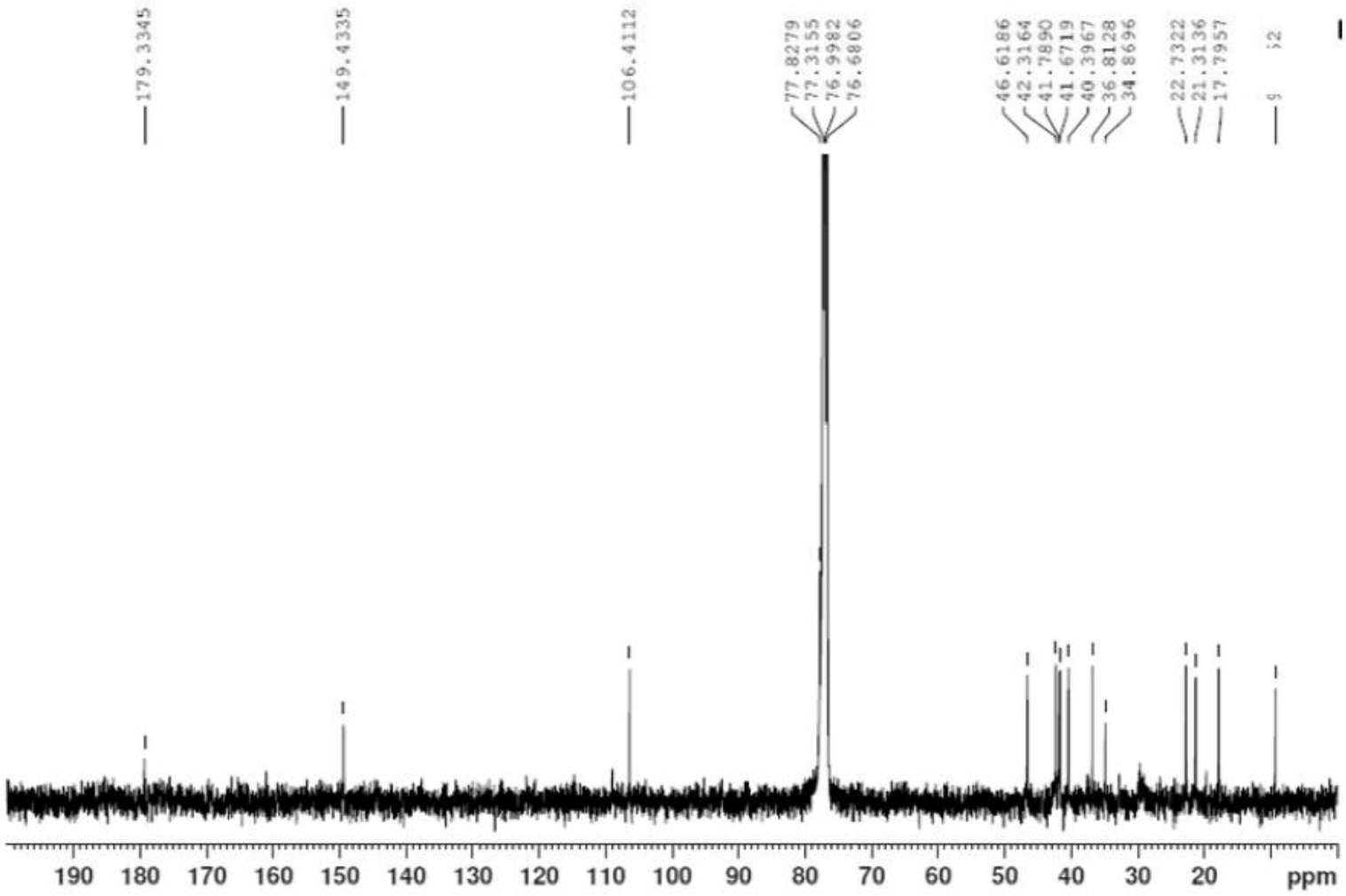

179.3345
149.4335
106.4112
77.8279
77.3155
76.9982
76.6806
46.6186
42.3164
41.7890
41.6719
40.3967
36.8128
34.8696
22.7322
21.3136
17.7957
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
ppm

FIG. 3B

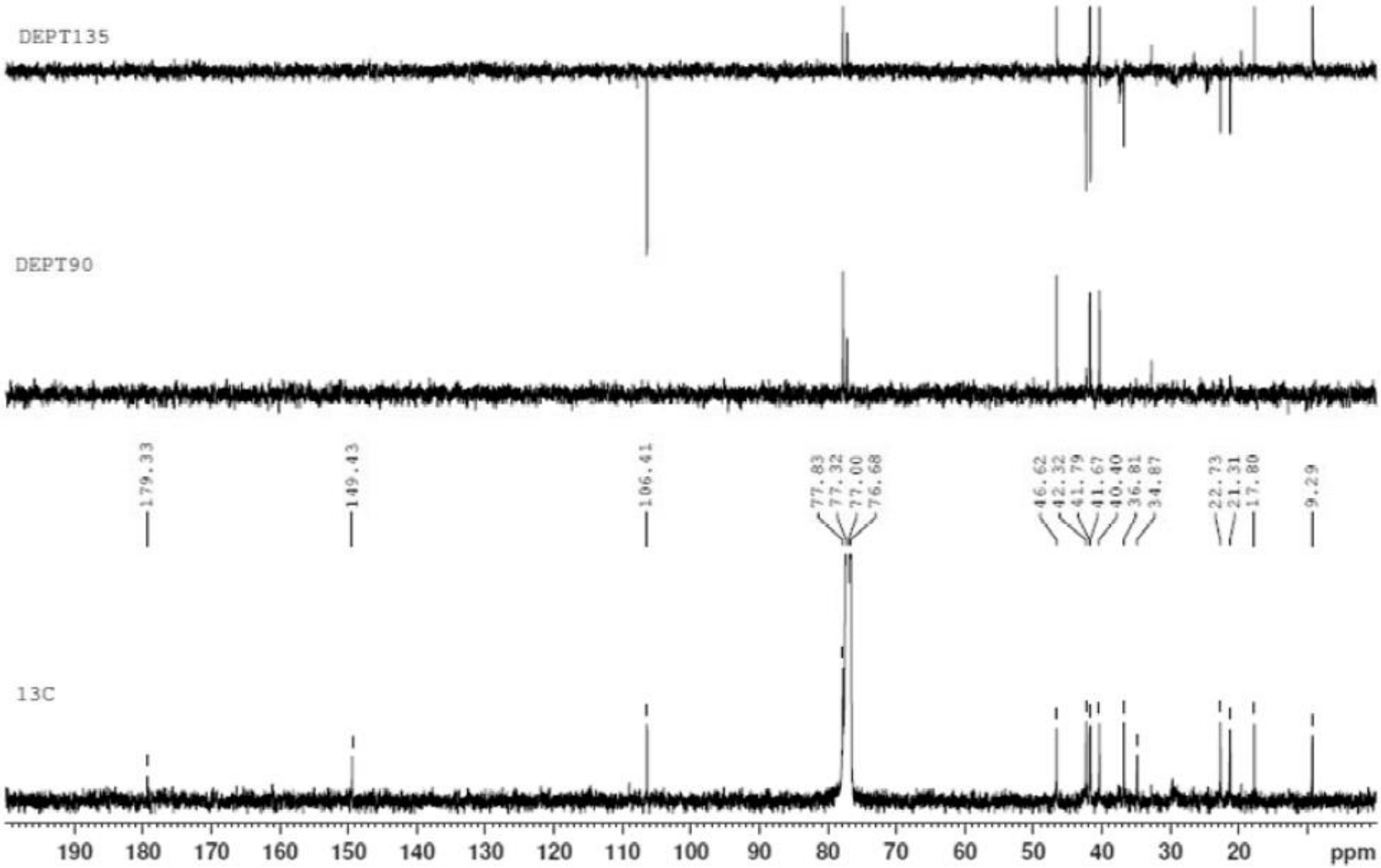

DEPT135
DEPT90
13C
179.33
149.43
106.41
77.83
77.32
77.00
76.68
46.62
42.32
41.79
41.67
40.40
36.81
34.87
22.73
21.31
17.80
9.29
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
ppm

FIG. 3C

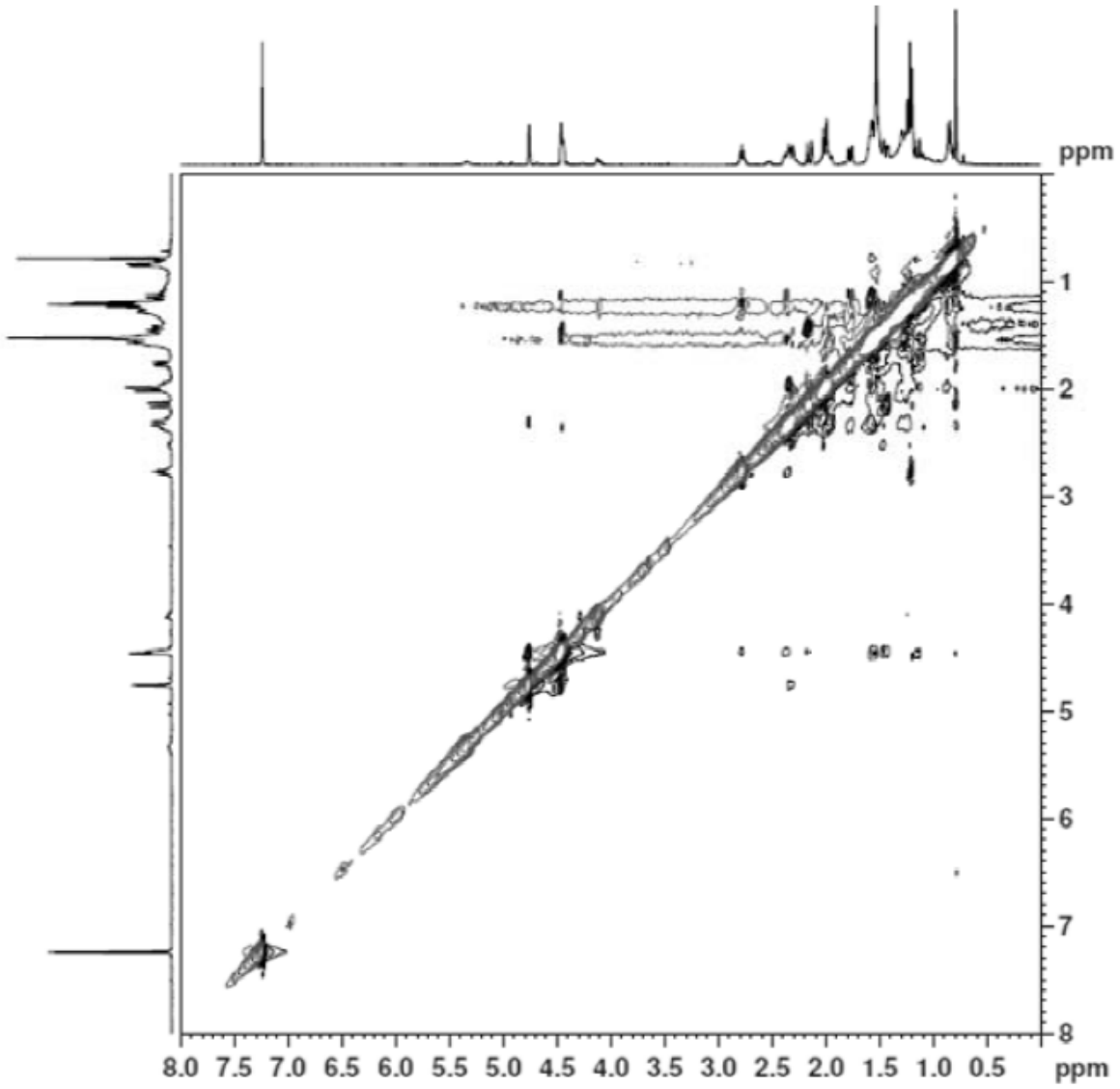


FIG. 3D

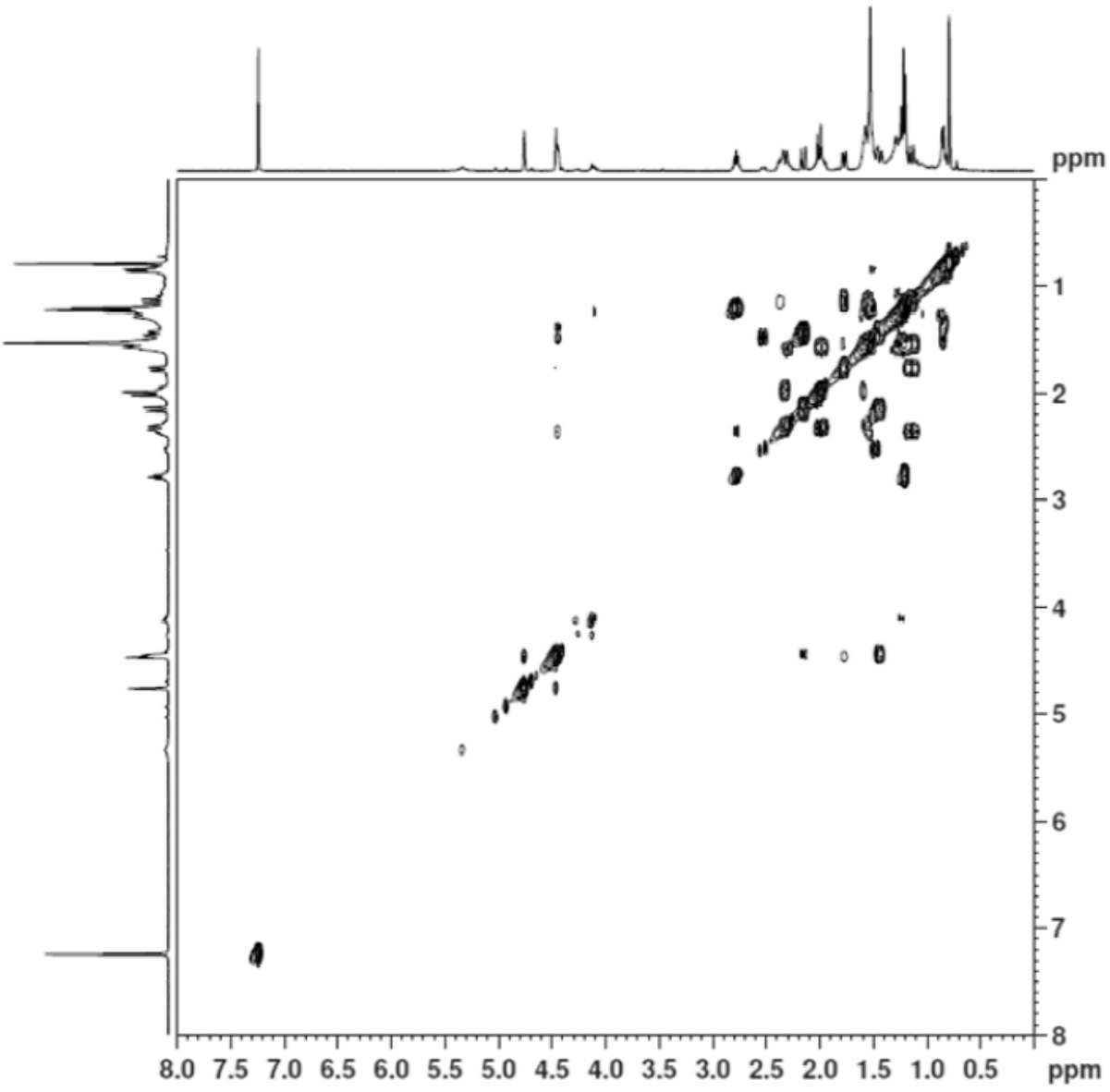


FIG. 3E

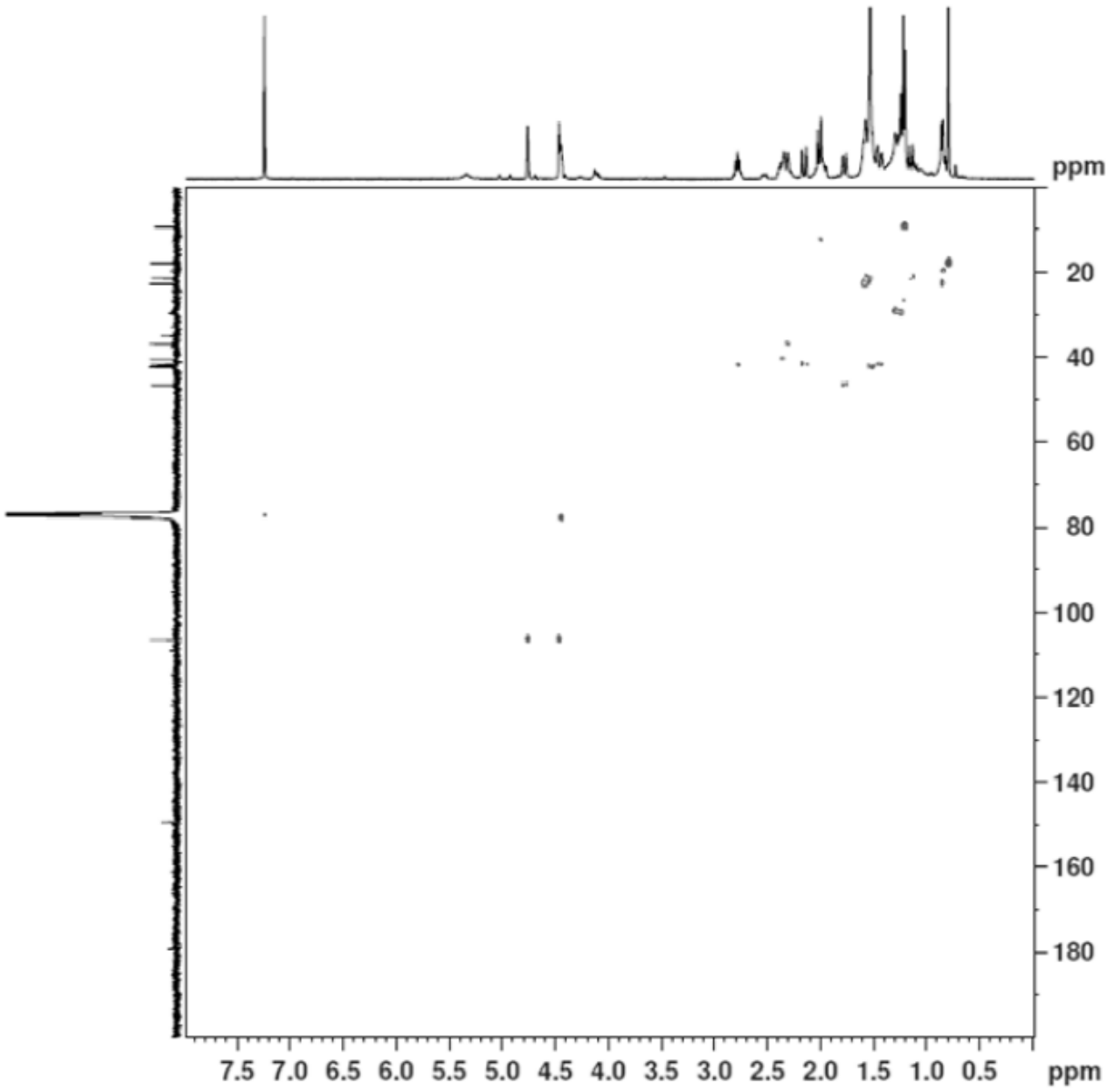

ppm
20
40
60
80
100
120
140
160
180
7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5
ppm

FIG. 3F

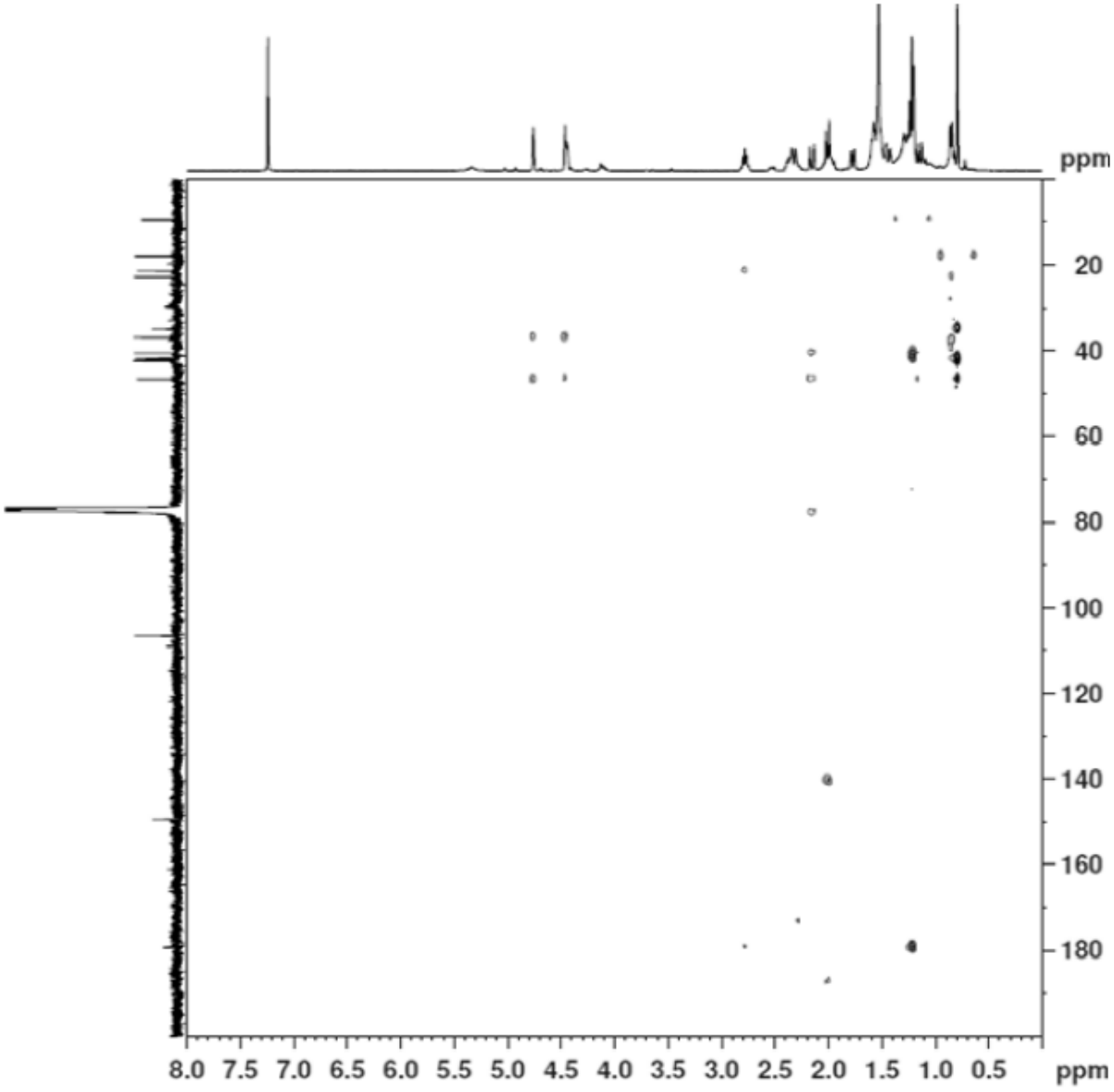

ppm
20
40
60
80
100
120
140
160
180
8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5
ppm

FIG. 3G

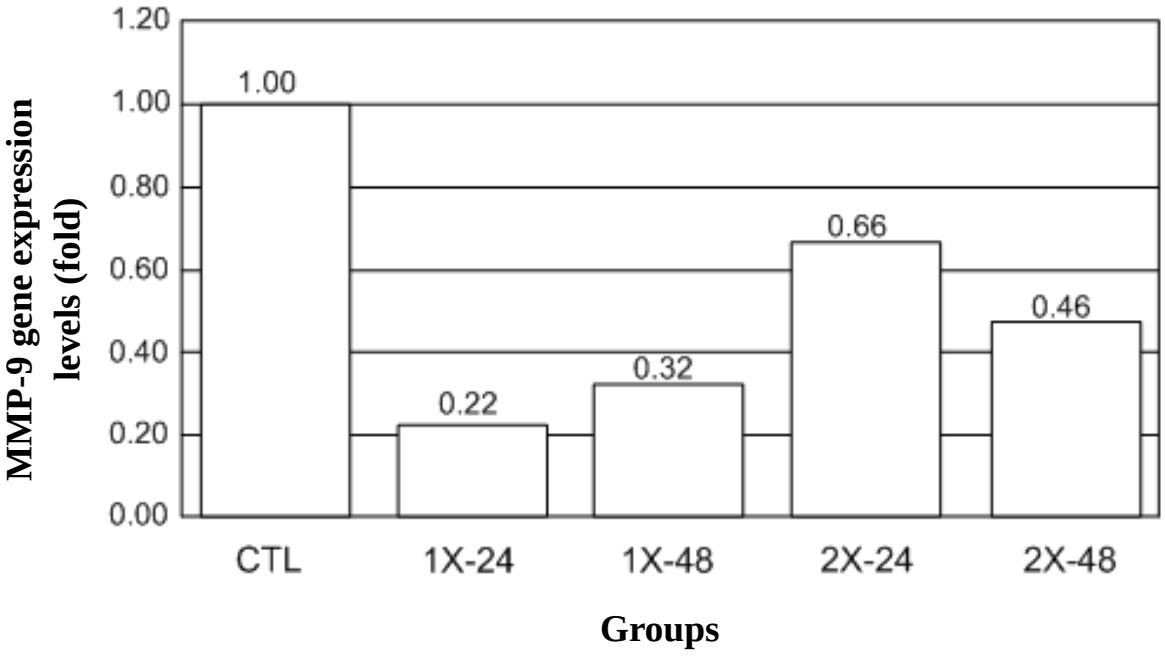

MMP-9 gene expression levels (fold)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.00
0.22
0.32
0.66
0.46
CTL
1X-24
1X-48
2X-24
2X-48
Groups

FIG. 4

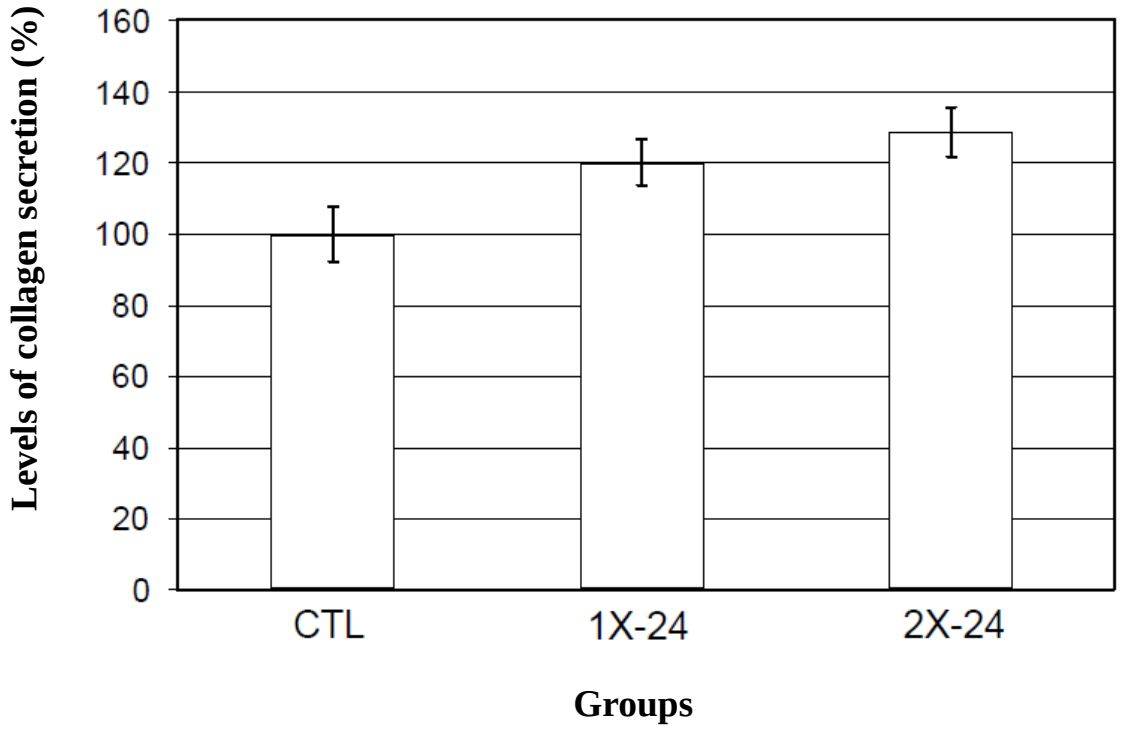

Levels of collagen secretion (%)
160
140
120
100
80
60
40
20
0
CTL
1X-24
2X-24
Groups

FIG. 5

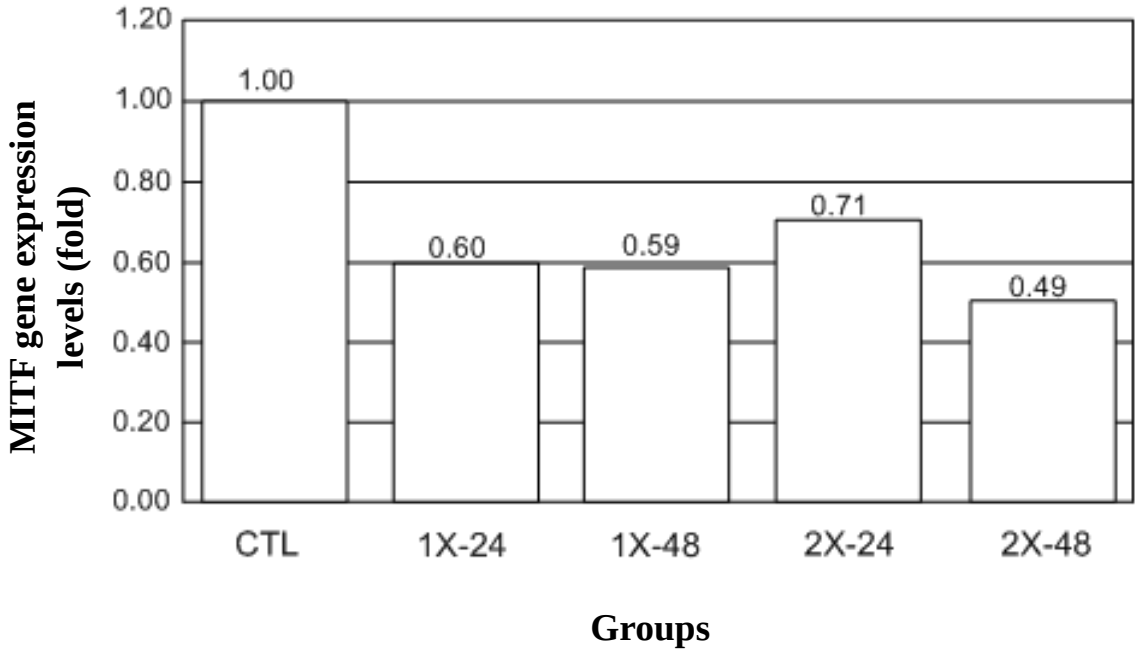

MITF gene expression levels (fold)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.00
0.60
0.59
0.71
0.49
CTL
1X-24
1X-48
2X-24
2X-48
Groups

FIG. 6

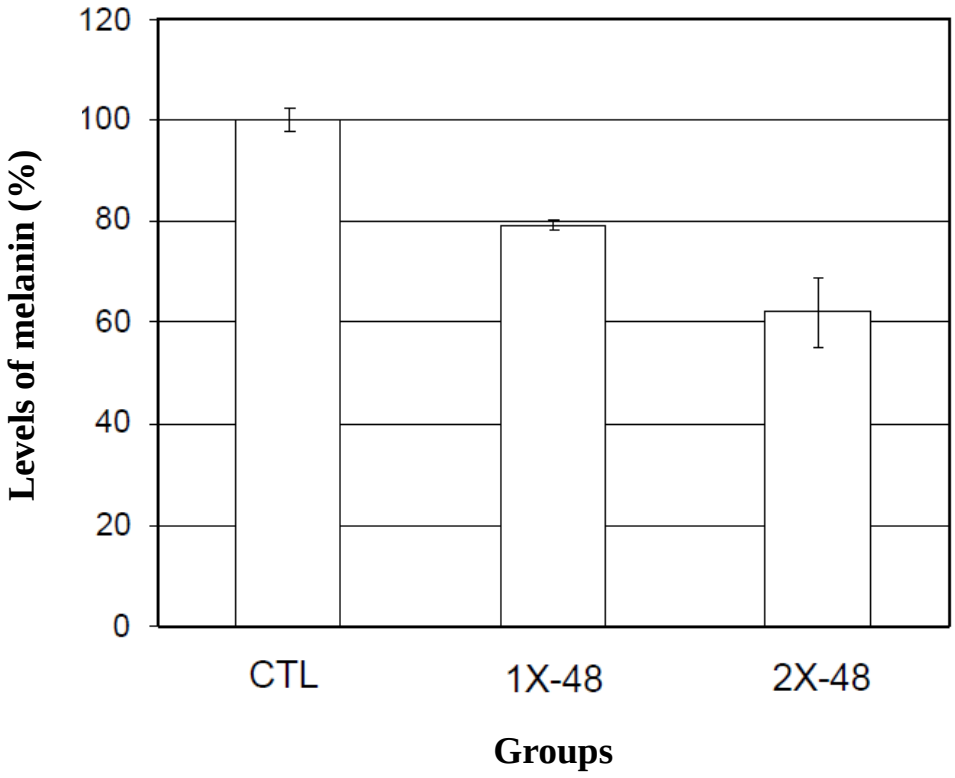


FIG. 7

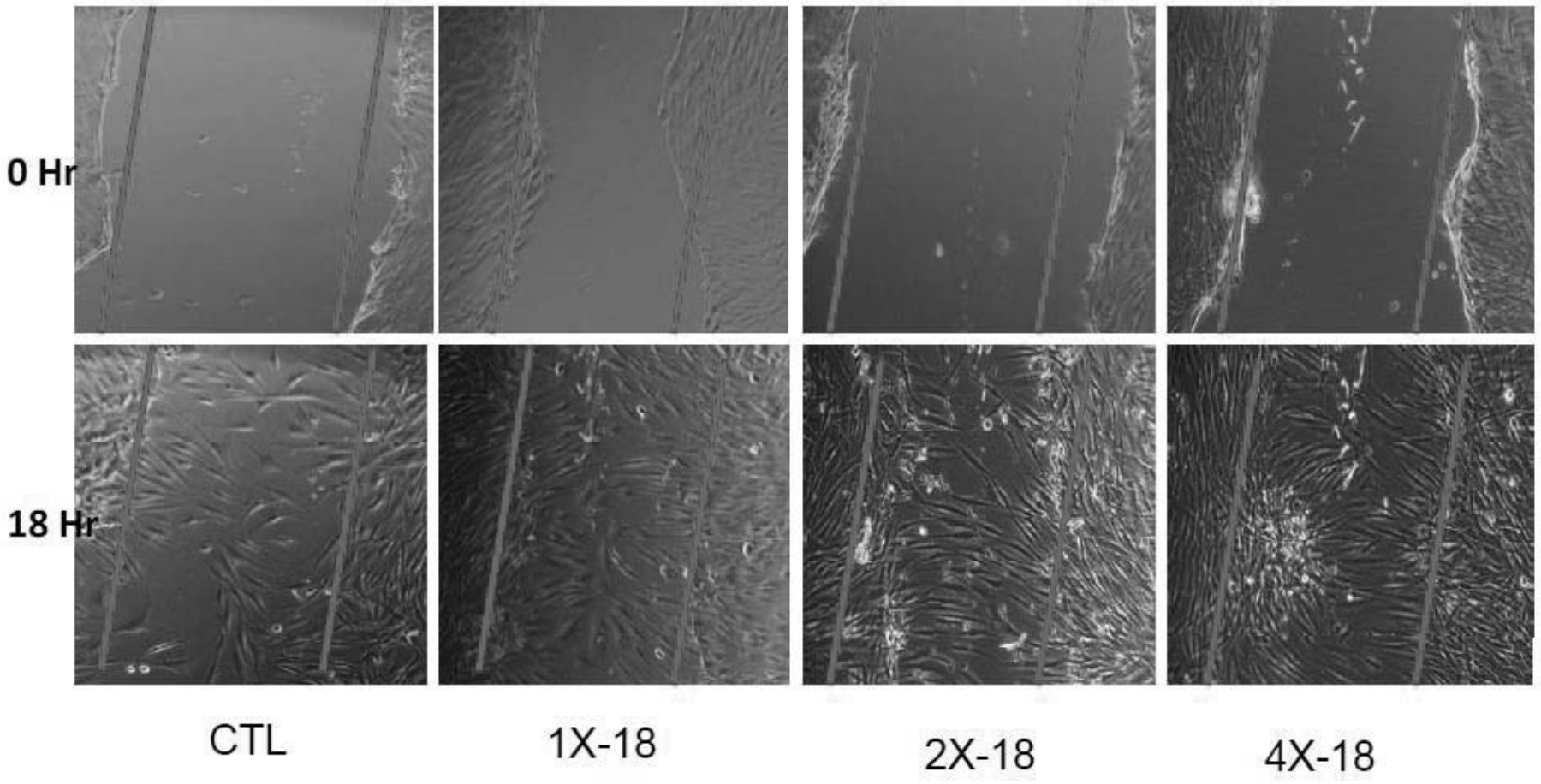


FIG. 8

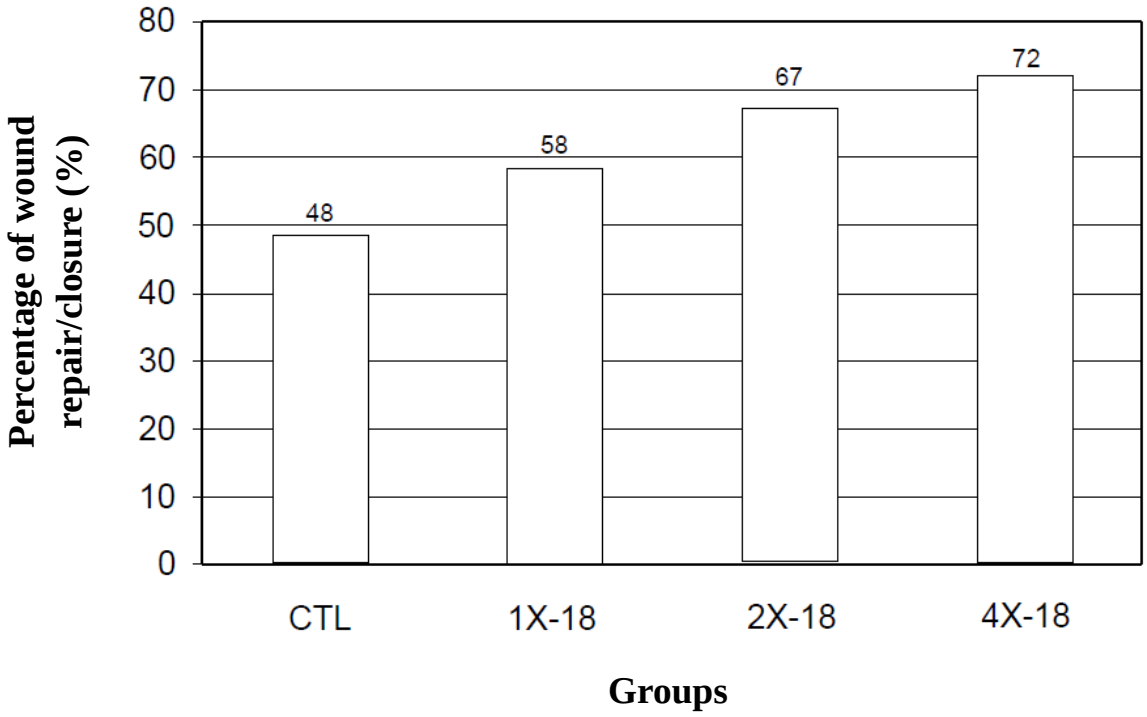

Percentage of wound repair/closure (%)
80
70
60
50
40
30
20
10
0
48
58
67
72
CTL
1X-18
2X-18
4X-18
Groups

FIG. 9