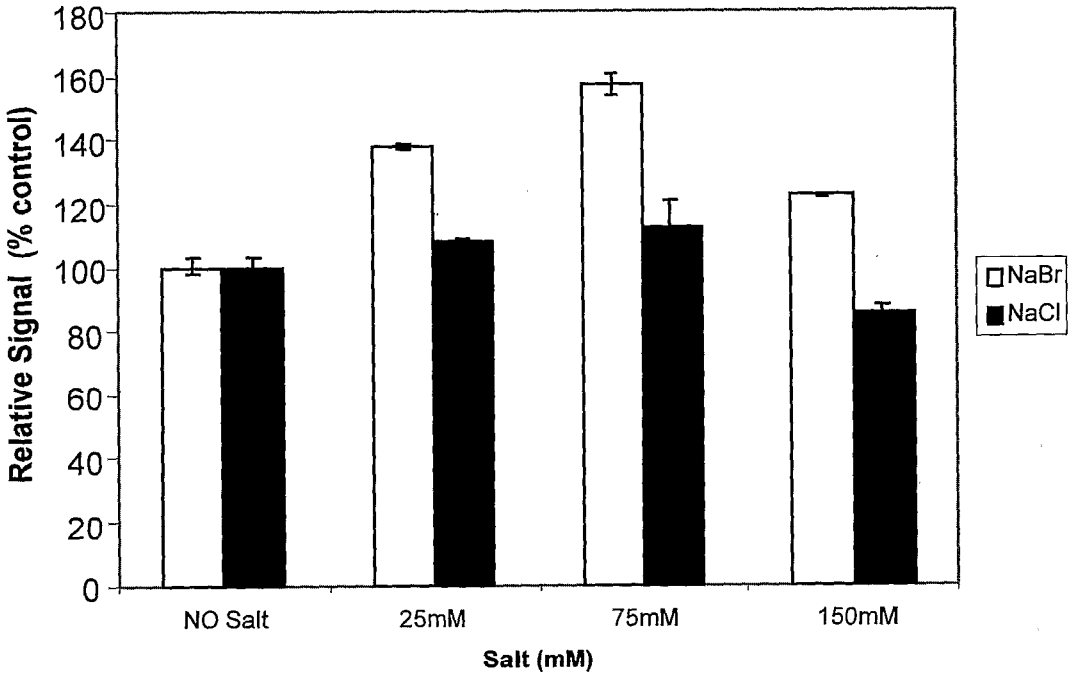
180
160
140
120
100
80
60
40
20
0
Relative Signal (% control)
NO Salt
25mM
75mM
150mM
Salt (mM)
NaBr
NaCl

FIG. 1

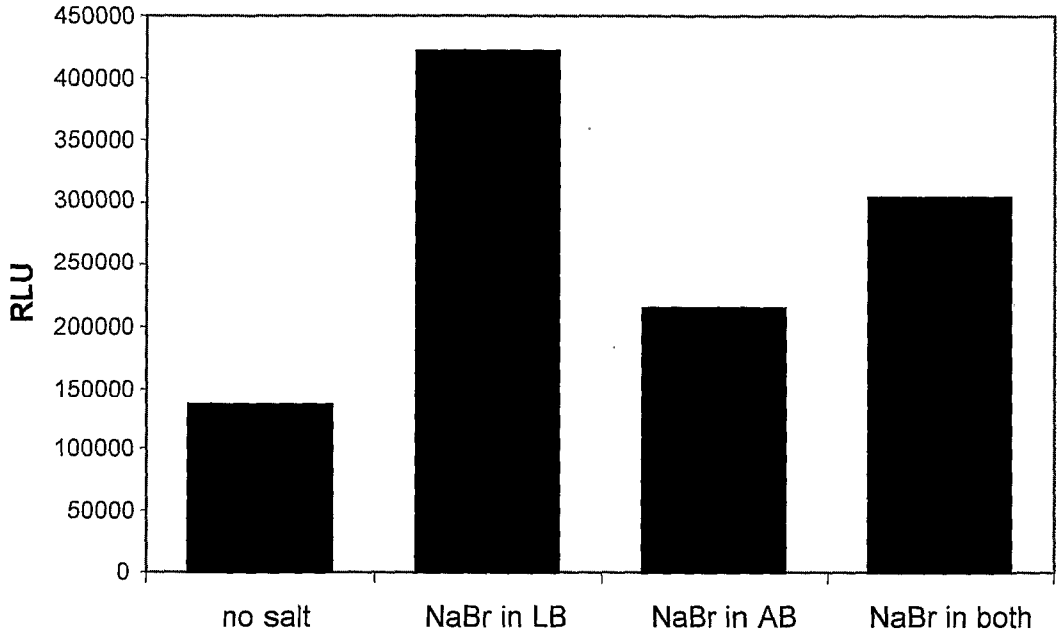
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
RLU
no salt
NaBr in LB
NaBr in AB
NaBr in both

FIG. 2

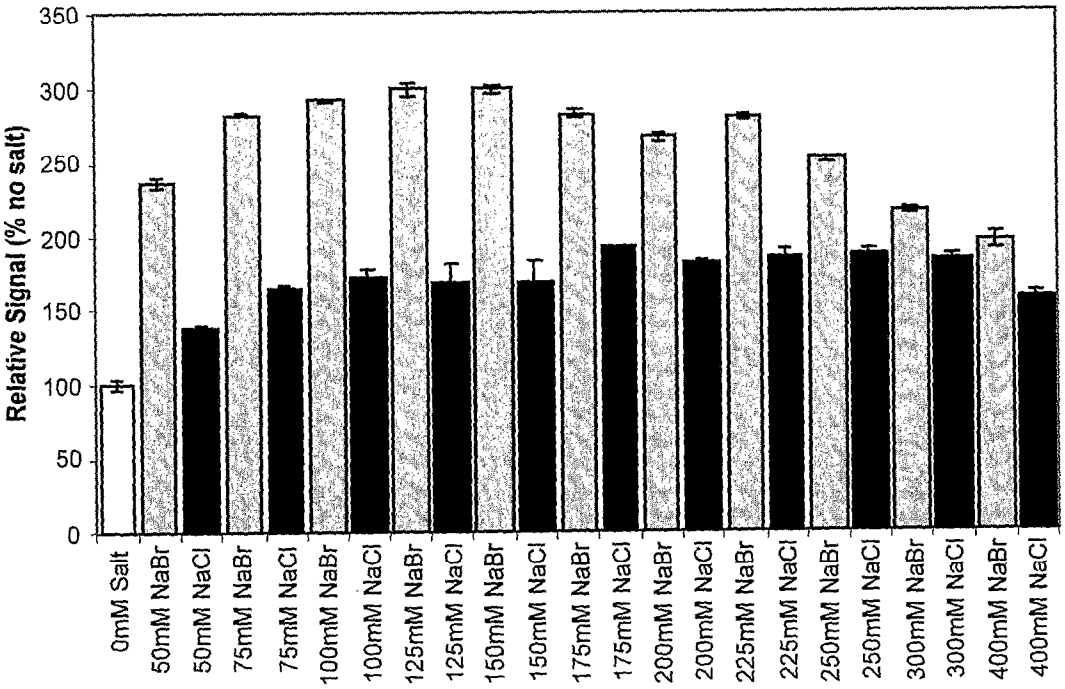
Relative Signal (% no salt)
350
300
250
200
150
100
50
0
0mM Salt
50mM NaBr
50mM NaCl
75mM NaBr
75mM NaCl
100mM NaBr
100mM NaCl
125mM NaBr
125mM NaCl
150mM NaBr
150mM NaCl
175mM NaBr
175mM NaCl
200mM NaBr
200mM NaCl
225mM NaBr
225mM NaCl
250mM NaBr
250mM NaCl
300mM NaBr
300mM NaCl
400mM NaBr
400mM NaCl

FIG. 3

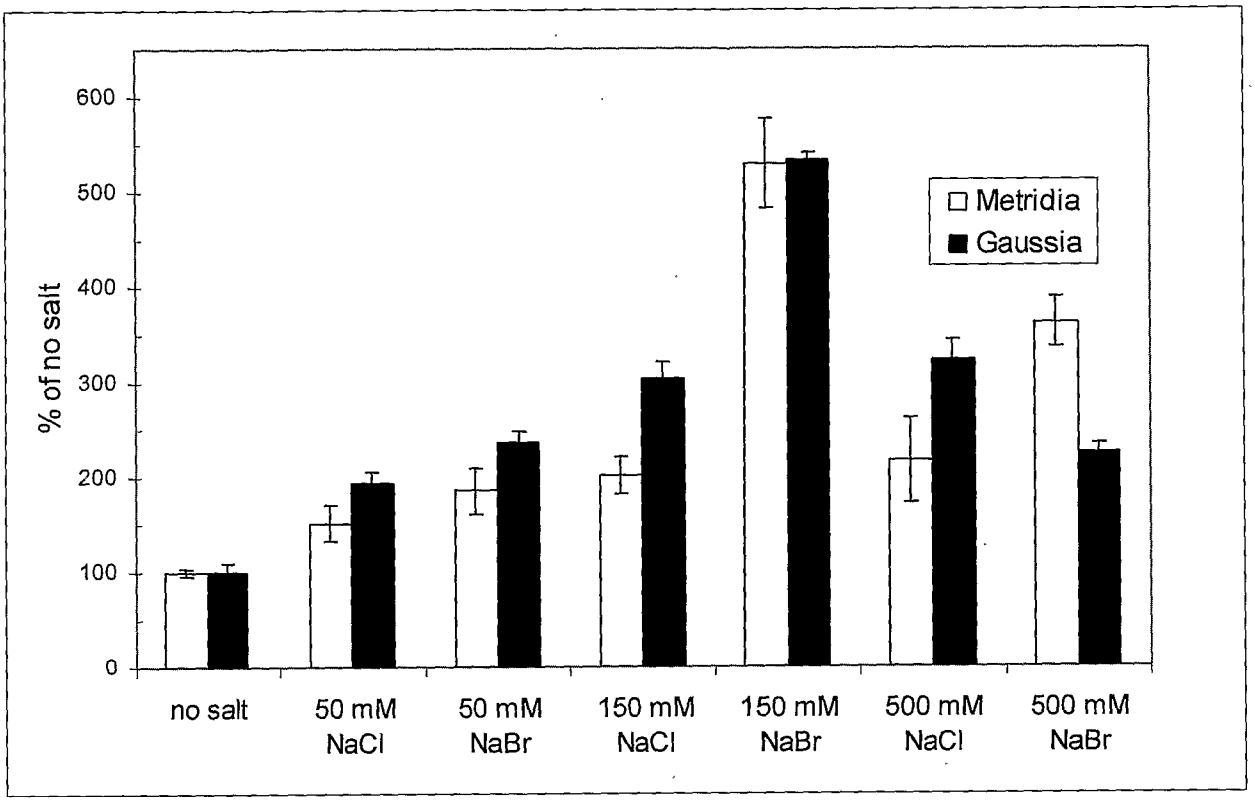
600
500
400
300
200
100
0
% of no salt
Metridia
Gaussia
no salt
50 mM NaCl
50 mM NaBr
150 mM NaCl
150 mM NaBr
500 mM NaCl
500 mM NaBr

FIG. 4

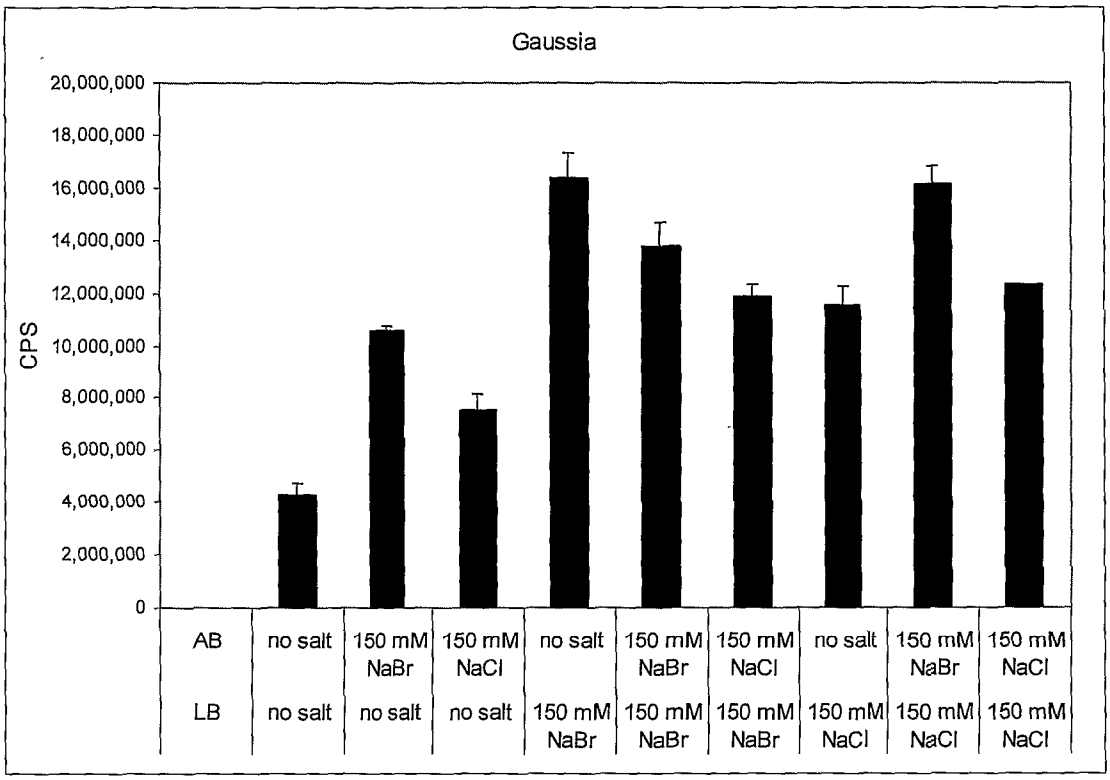
Gaussia
CPS
20,000,000
18,000,000
16,000,000
14,000,000
12,000,000
10,000,000
8,000,000
6,000,000
4,000,000
2,000,000
0
AB
LB
no salt
150 mM NaBr
150 mM NaCl

FIG. 5A

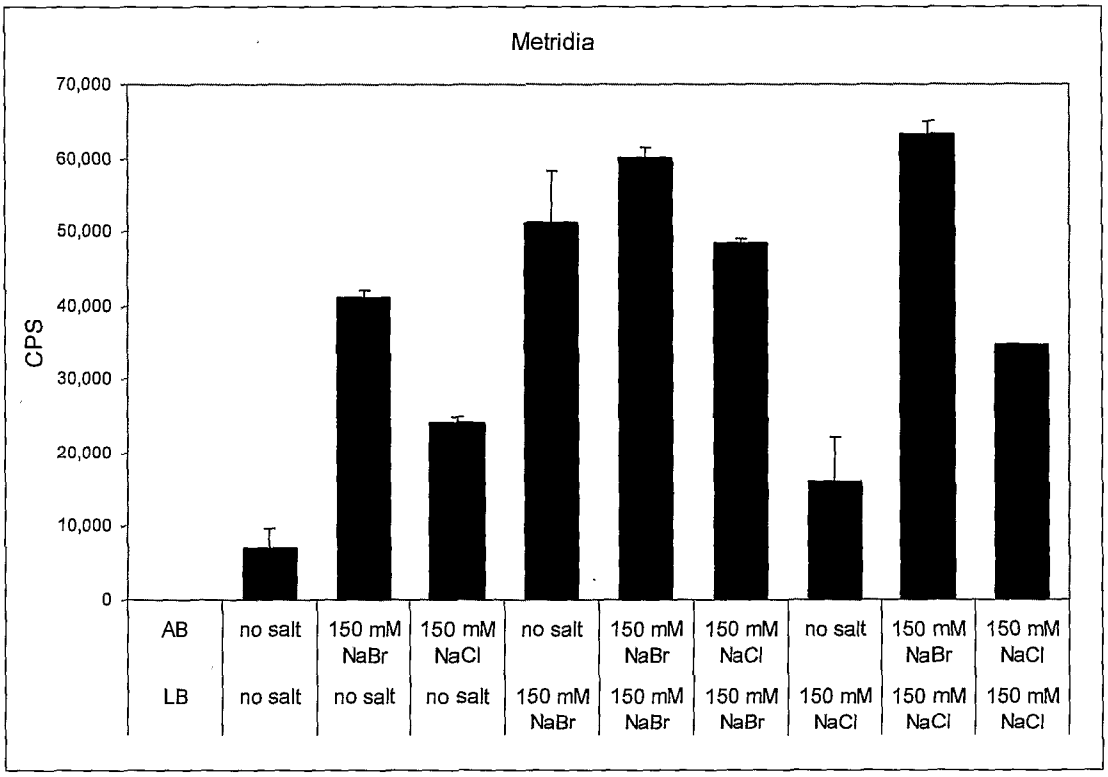
Metridia
CPS
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
AB
LB
no salt
150 mM NaBr
150 mM NaCl

FIG. 5B

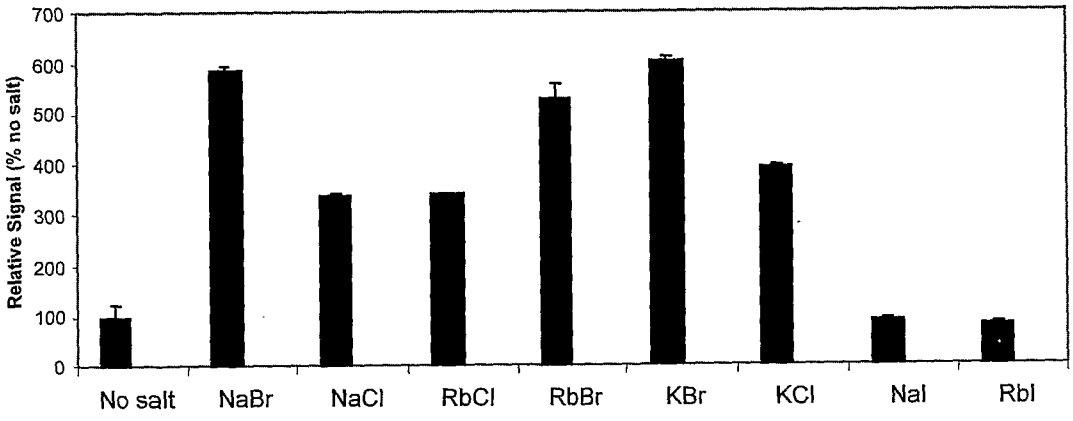
Relative Signal (% no salt)
700
600
500
400
300
200
100
0
No salt
NaBr
NaCl
RbCl
RbBr
KBr
KCl
NaI
RbI

FIG. 6

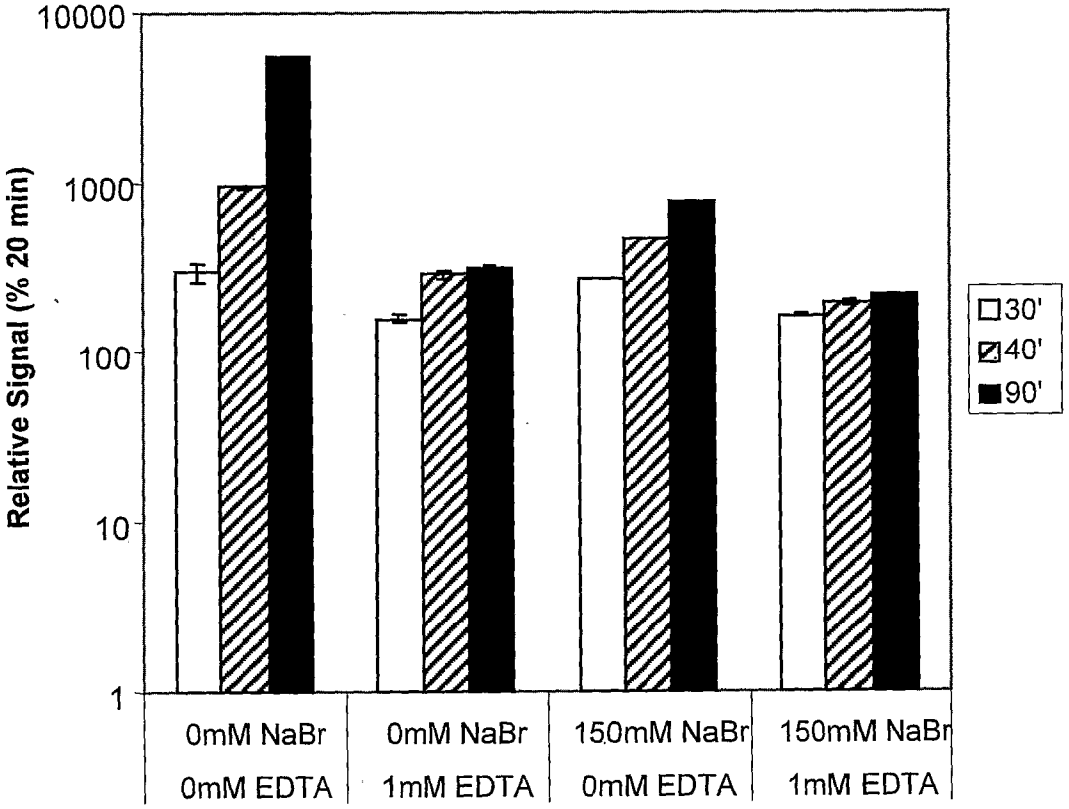
10000
1000
100
10
1
Relative Signal (% 20 min)
0mM NaBr
0mM EDTA
0mM NaBr
1mM EDTA
150mM NaBr
0mM EDTA
150mM NaBr
1mM EDTA
30'
40'
90'

FIG. 7

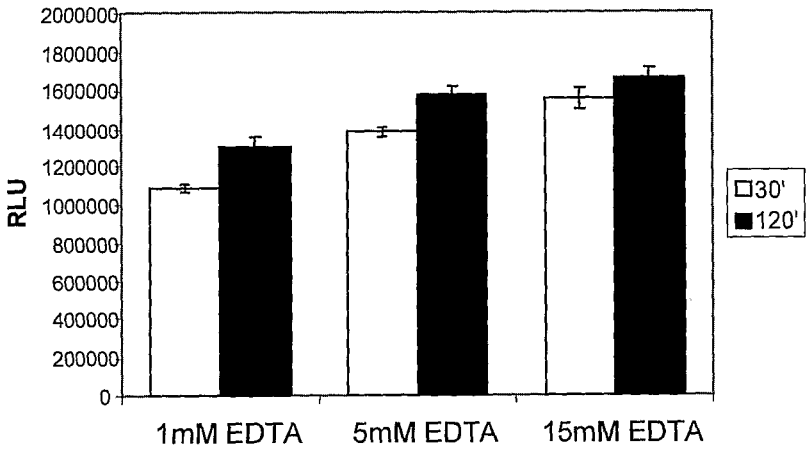
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
RLU
1mM EDTA
5mM EDTA
15mM EDTA
30'
120'

FIG. 8A

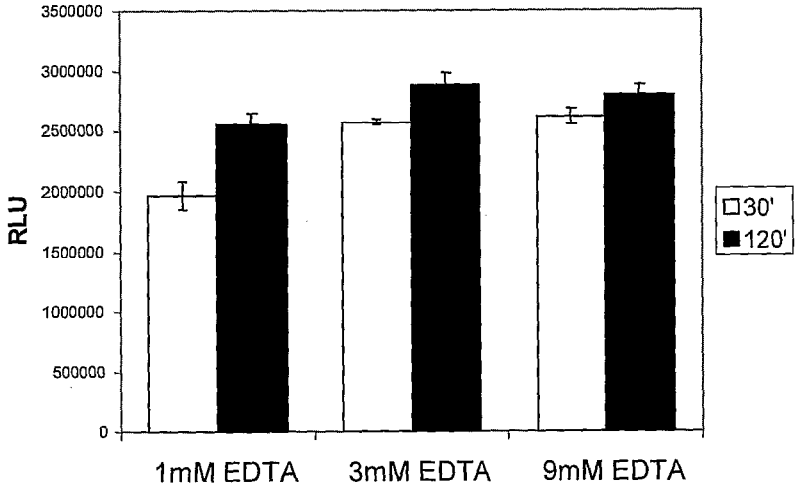
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
RLU
1mM EDTA
3mM EDTA
9mM EDTA
30'
120'

FIG. 8B

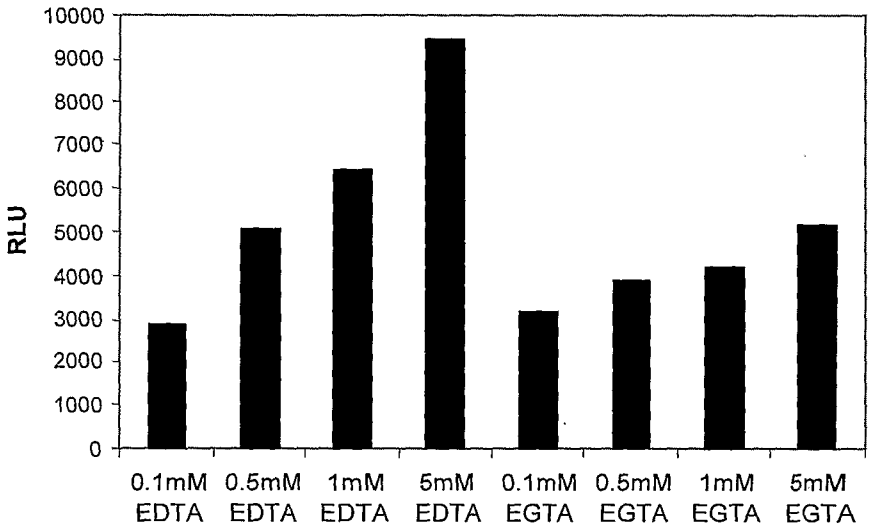
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
RLU
0.1mM EDTA
0.5mM EDTA
1mM EDTA
5mM EDTA
0.1mM EGTA
0.5mM EGTA
1mM EGTA
5mM EGTA

FIG. 9

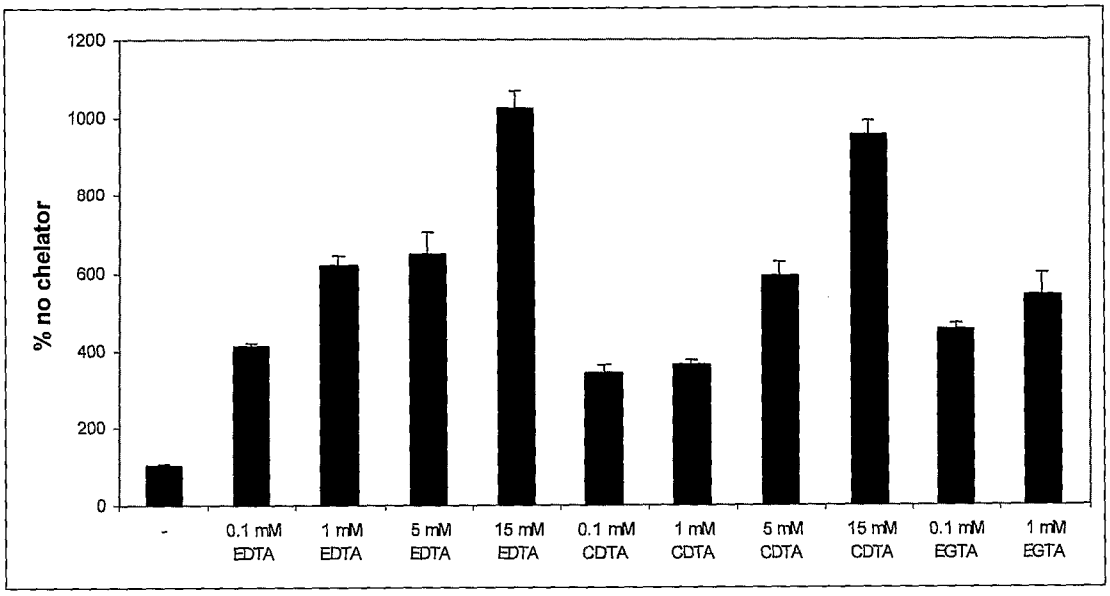

FIG. 10A

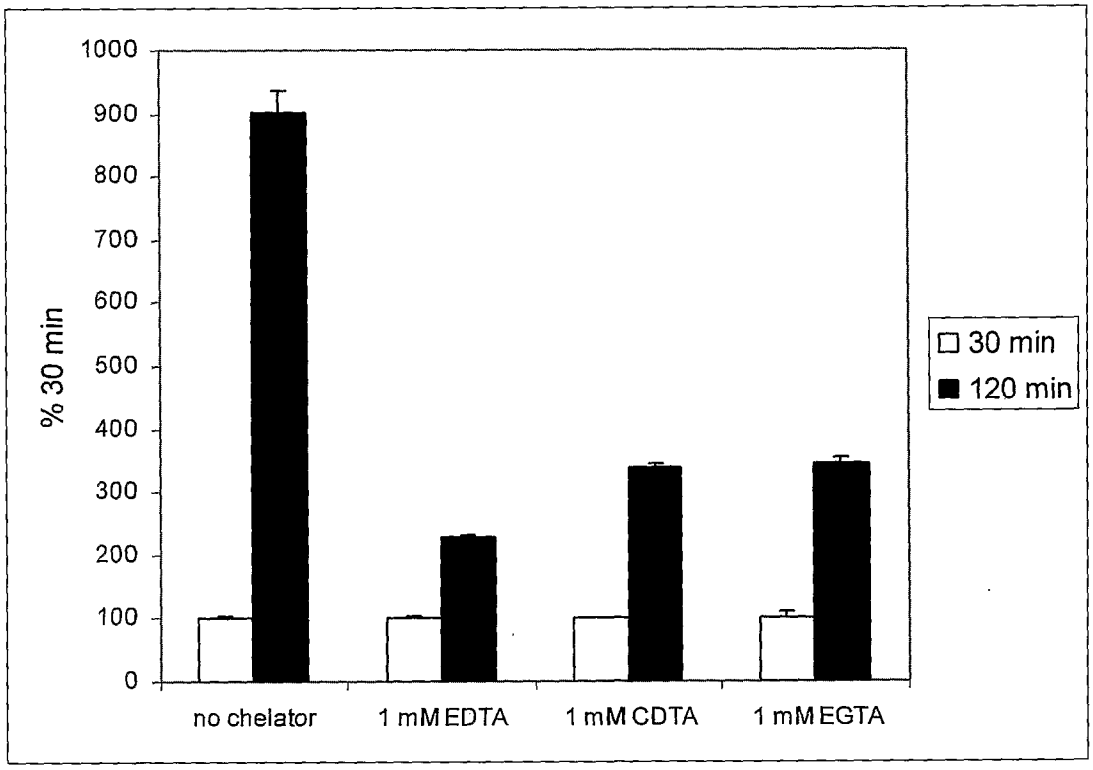

FIG. 10B

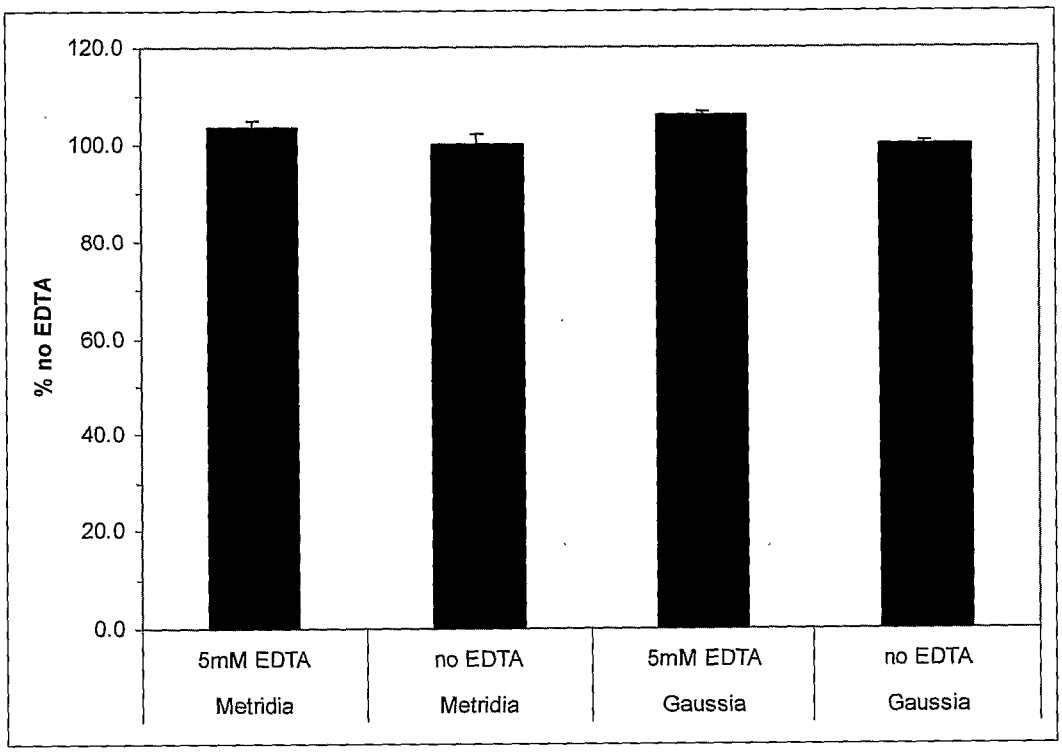

FIG. 11A

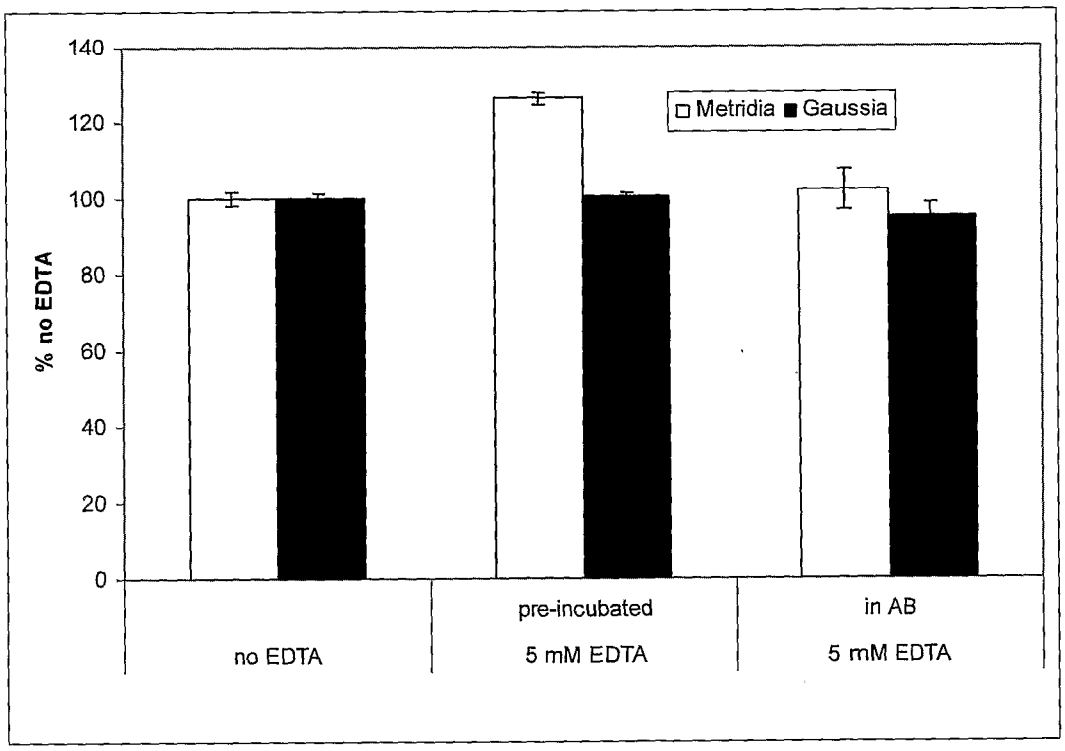

FIG. 11B

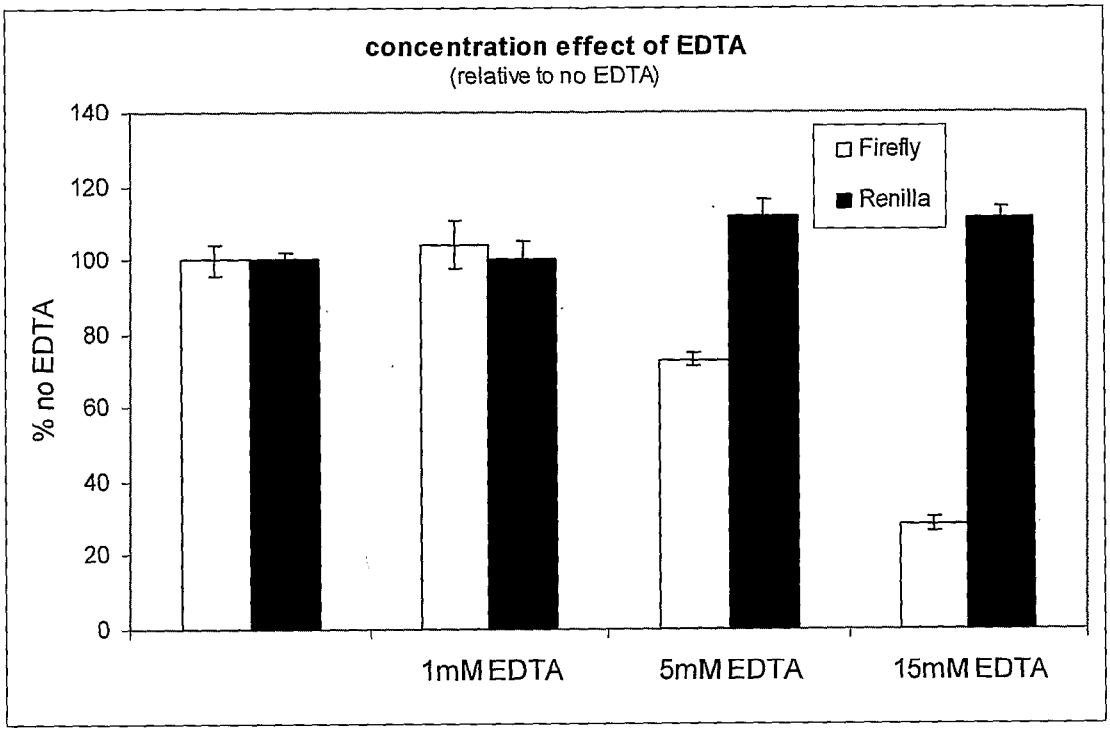
concentration effect of EDTA
(relative to no EDTA)
% no EDTA
140
120
100
80
60
40
20
0
Firefly
Renilla
1mM EDTA
5mM EDTA
15mM EDTA

FIG. 12

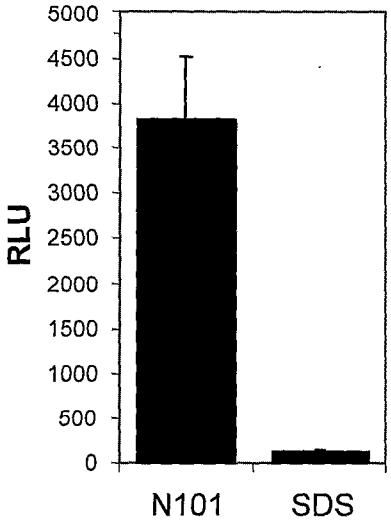

FIG. 13A

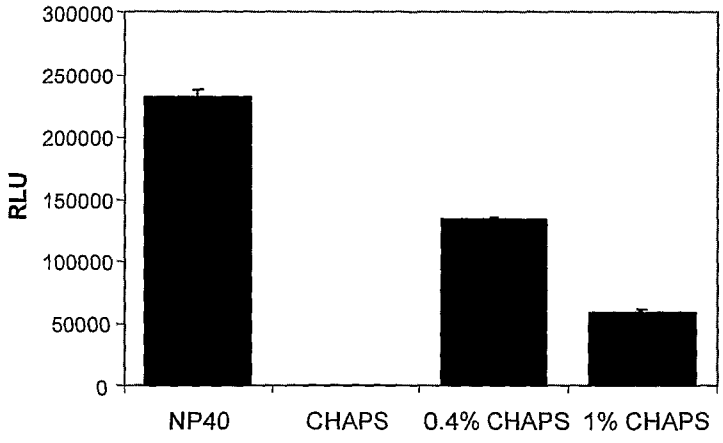

FIG. 13B

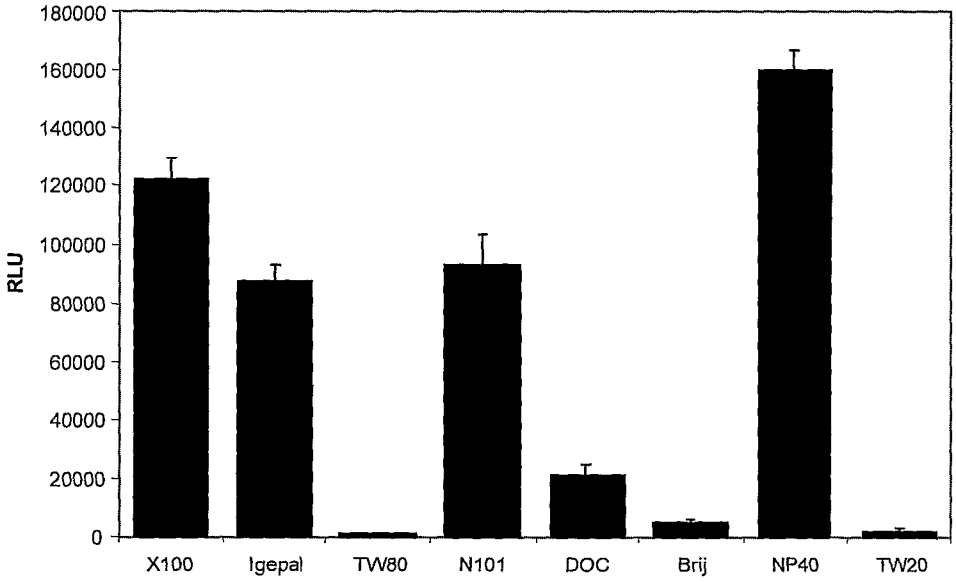

FIG. 13C

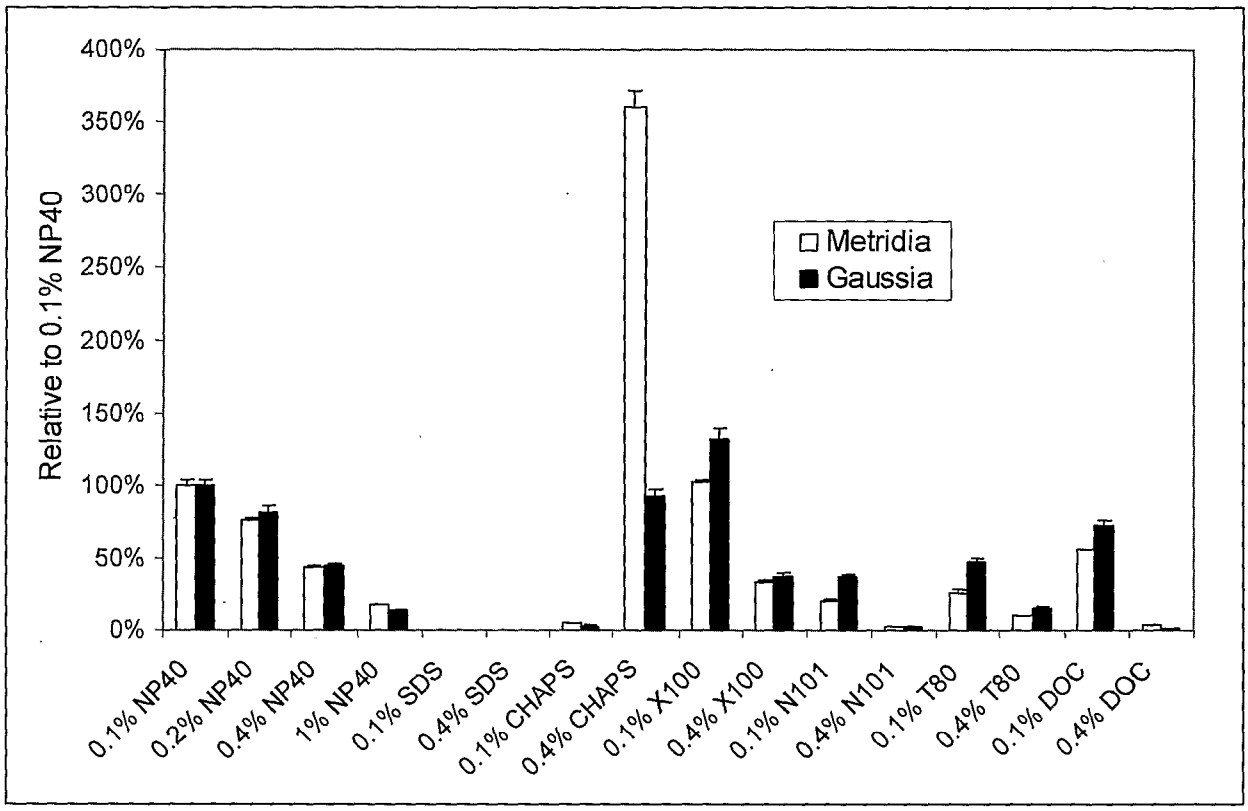

FIG. 14A

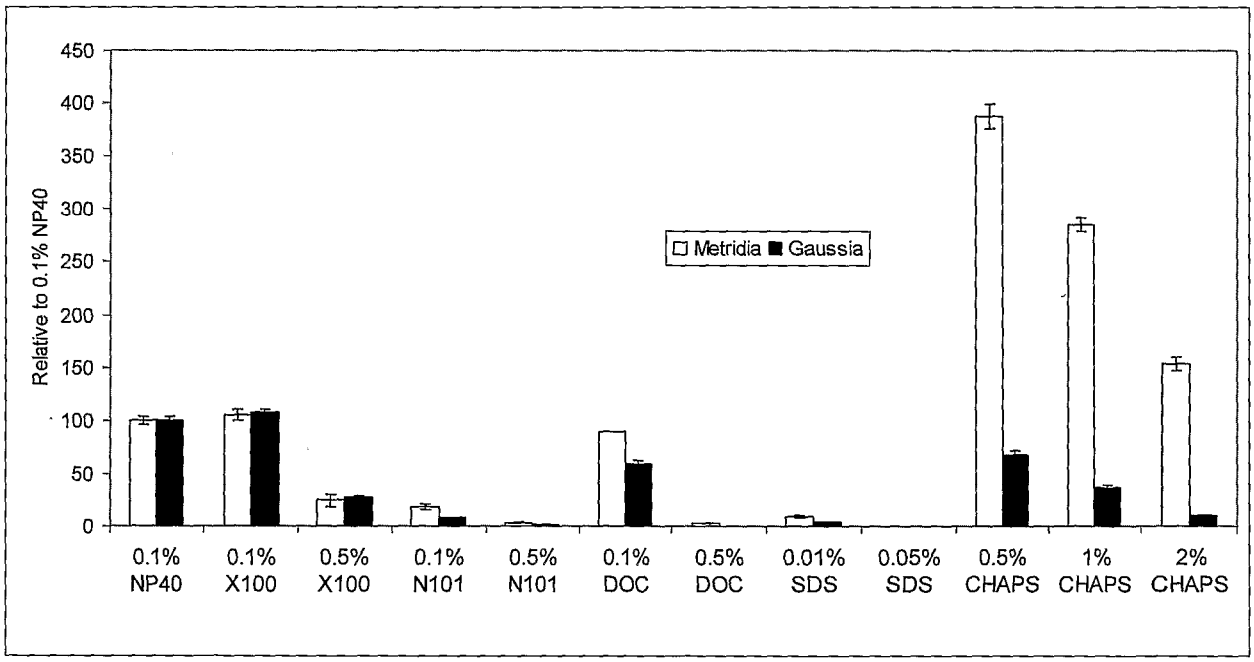

FIG. 14B

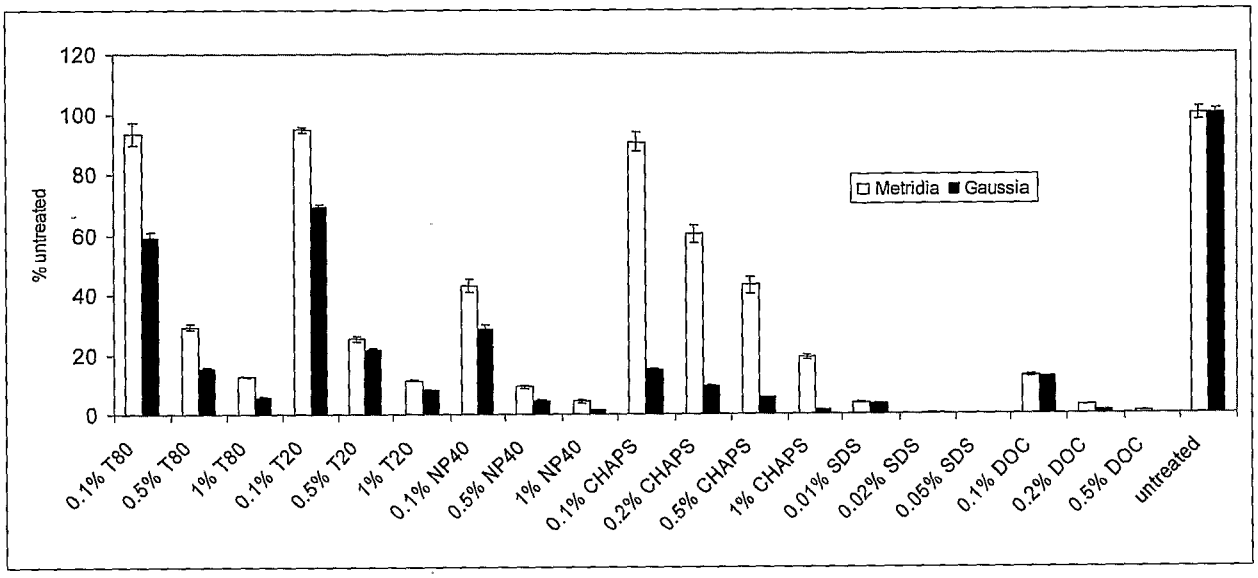

FIG. 15A

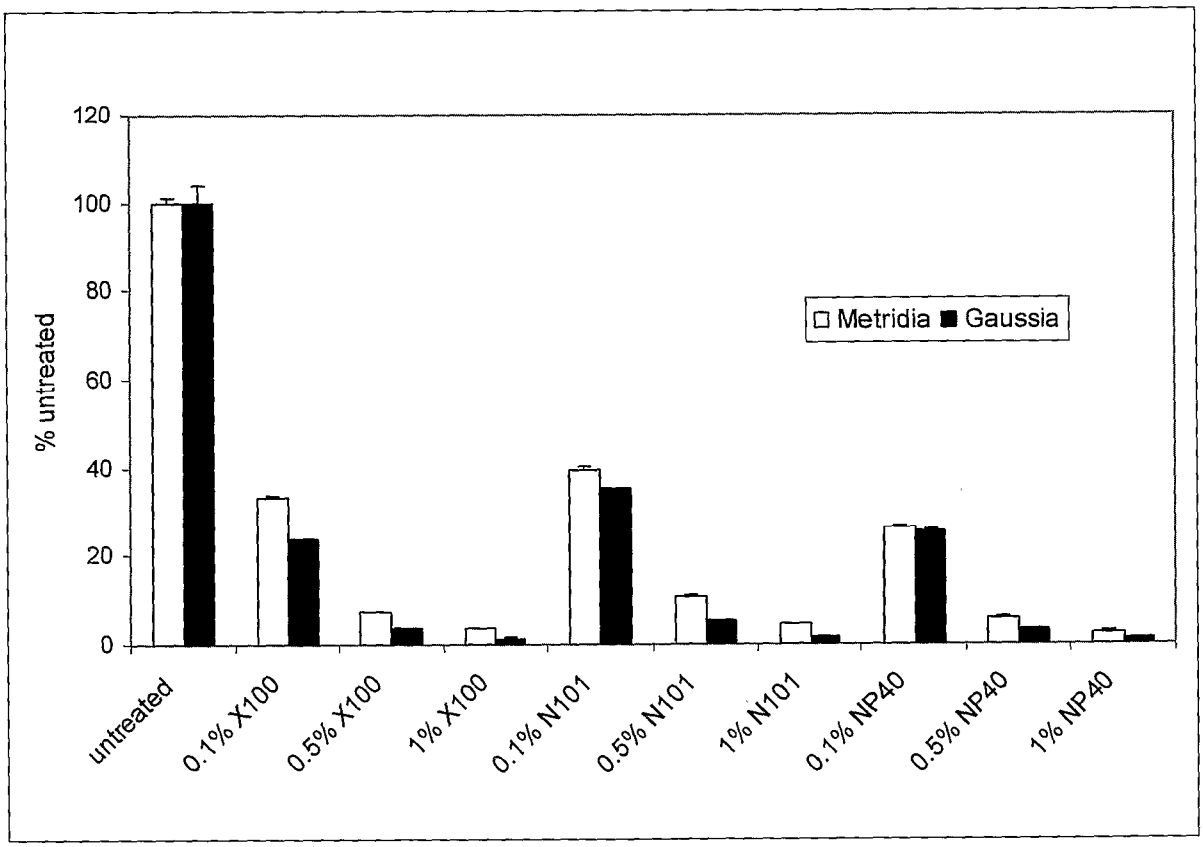

FIG. 15B

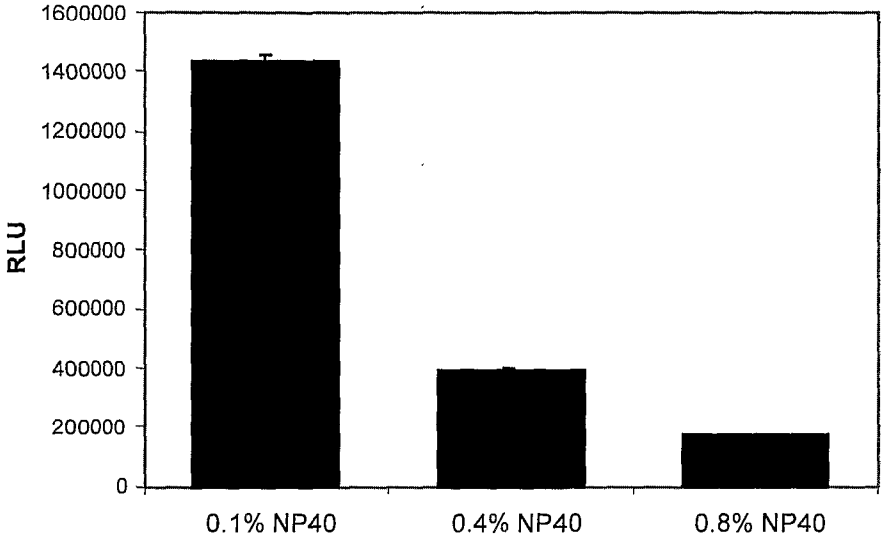

FIG. 16A

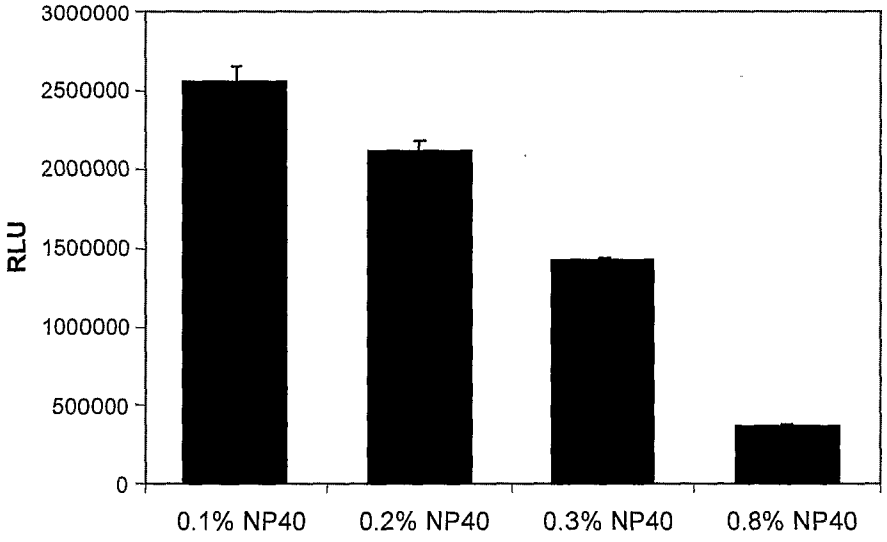

FIG. 16B

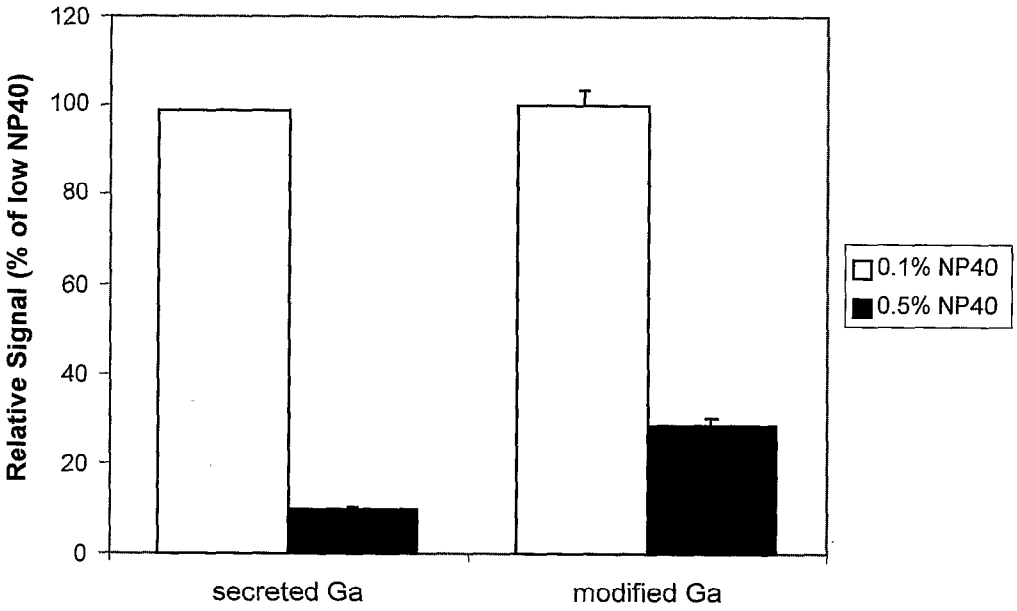
120
100
80
60
40
20
0
Relative Signal (% of low NP40)
secreted Ga
modified Ga
0.1% NP40
0.5% NP40

FIG. 17

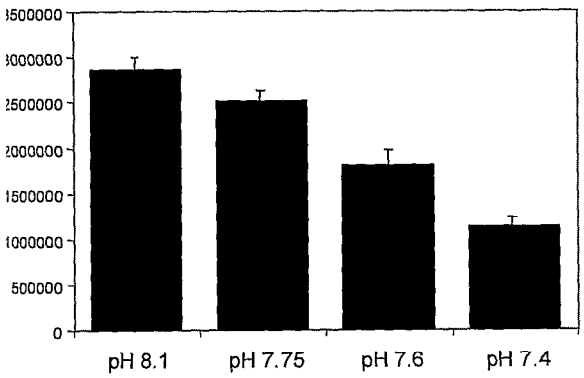

FIG. 18A

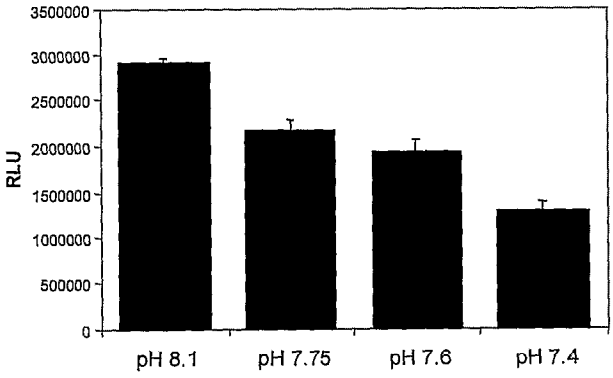

FIG. 18B

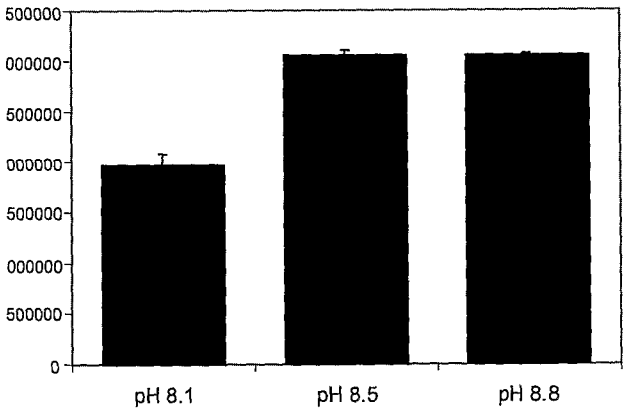

FIG. 18C

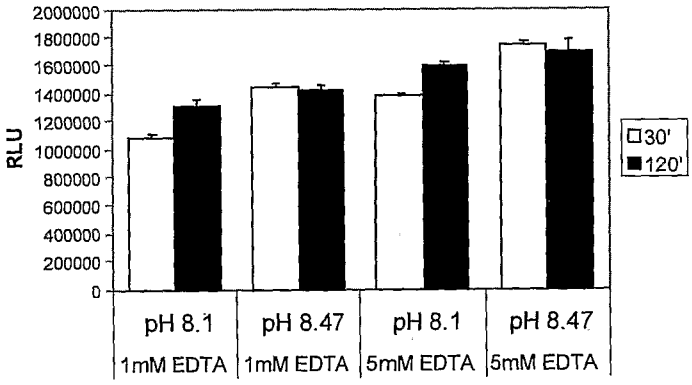

FIG. 18D

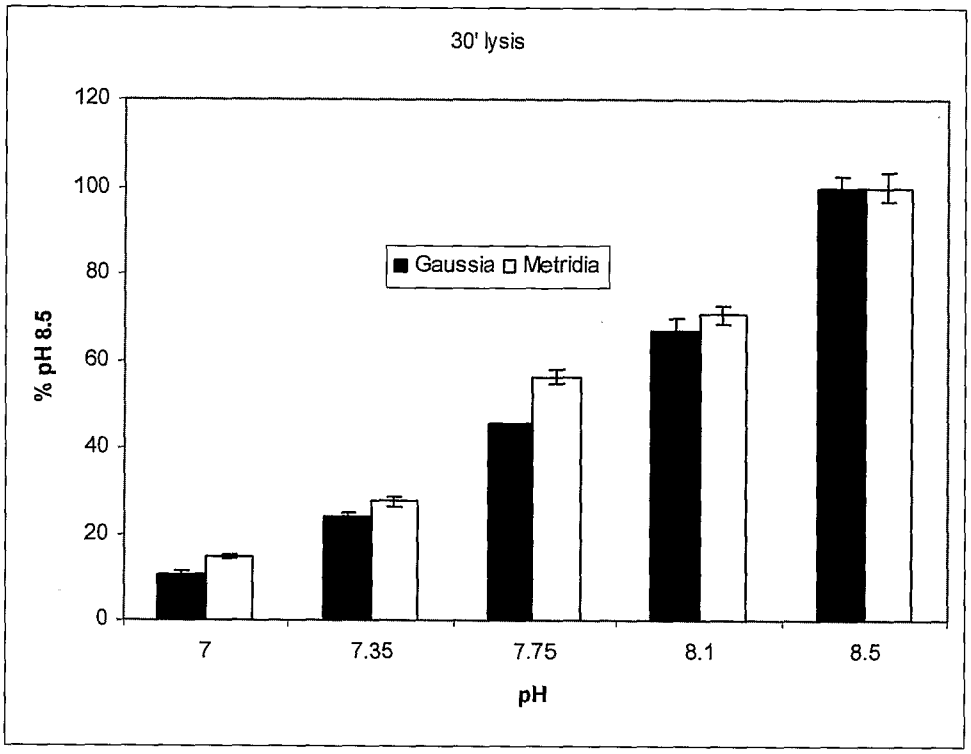
30' lysis
120
100
80
60
40
20
0
% pH 8.5
Gaussia
Metridia
7
7.35
7.75
8.1
8.5
pH

FIG. 19

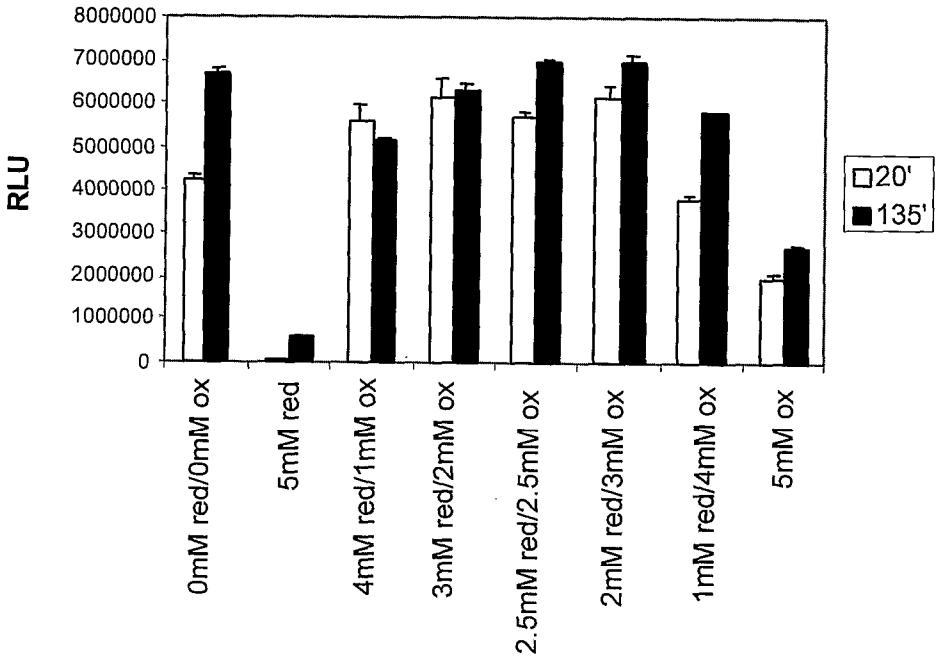
RLU
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
0mM red/0mM ox
5mM red
4mM red/1mM ox
3mM red/2mM ox
2.5mM red/2.5mM ox
2mM red/3mM ox
1mM red/4mM ox
5mM ox
20'
135'

FIG. 20

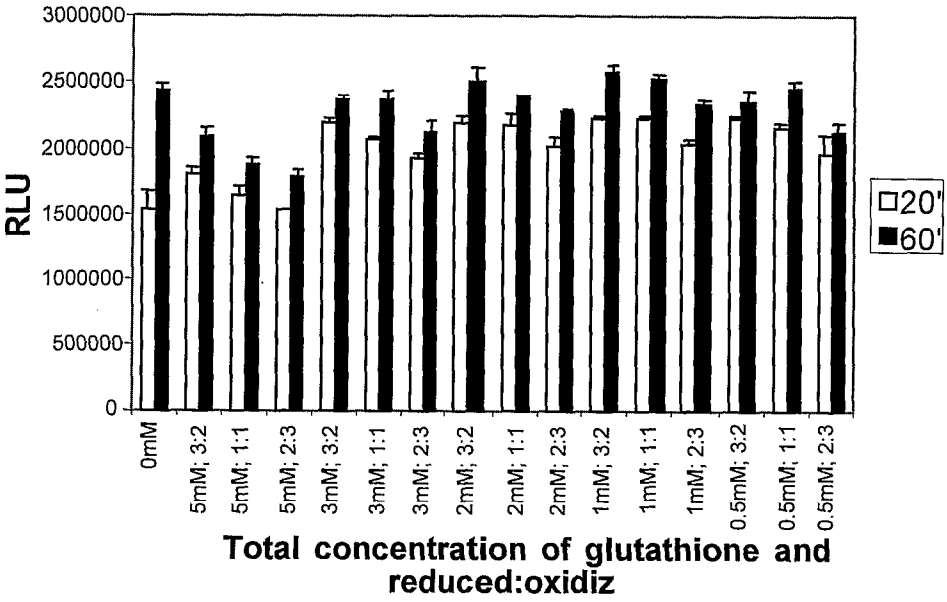
3000000
2500000
2000000
1500000
1000000
500000
0
RLU
□20'
■60'
0mM
5mM; 3:2
5mM; 1:1
5mM; 2:3
3mM; 3:2
3mM; 1:1
3mM; 2:3
2mM; 3:2
2mM; 1:1
2mM; 2:3
1mM; 3:2
1mM; 1:1
1mM; 2:3
0.5mM; 3:2
0.5mM; 1:1
0.5mM; 2:3
Total concentration of glutathione and reduced:oxidiz

FIG. 21

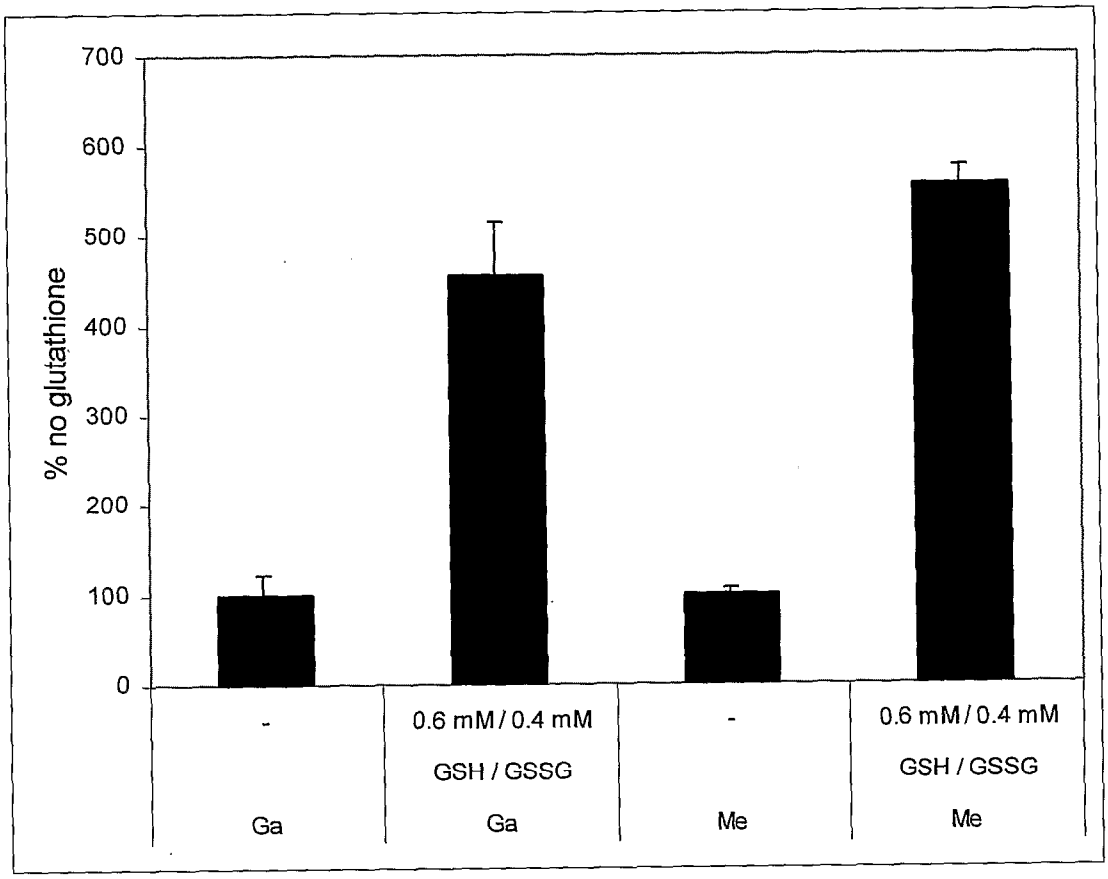
700
600
500
400
300
200
100
0
% no glutathione
-
0.6 mM / 0.4 mM
GSH / GSSG
Ga
Ga
-
0.6 mM / 0.4 mM
GSH / GSSG
Me
Me

FIG. 22

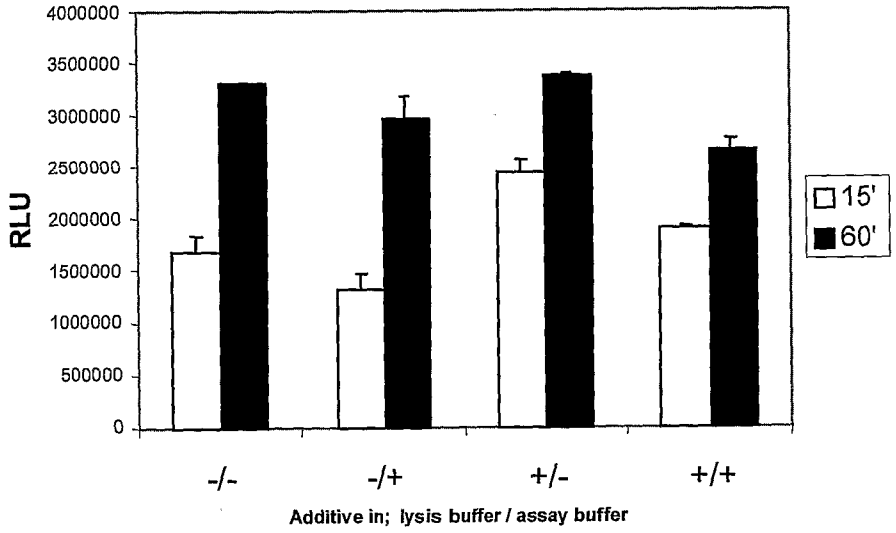

FIG. 23A

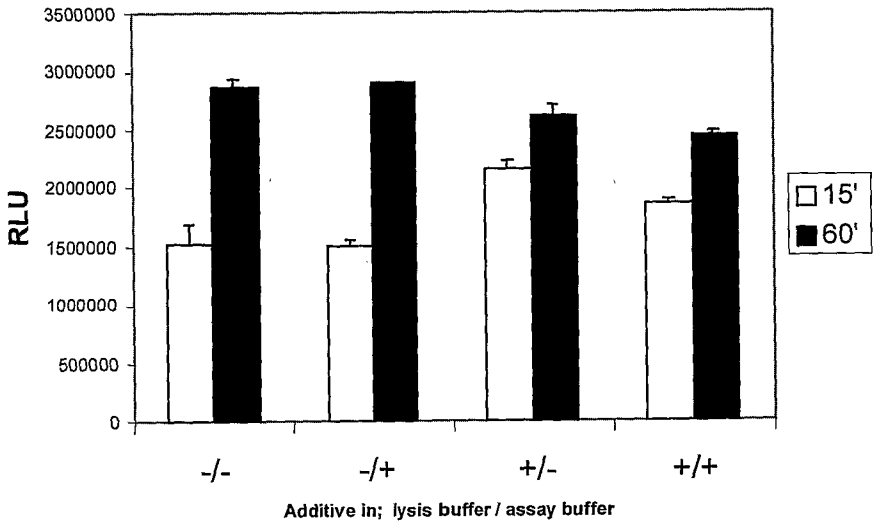

FIG. 23B

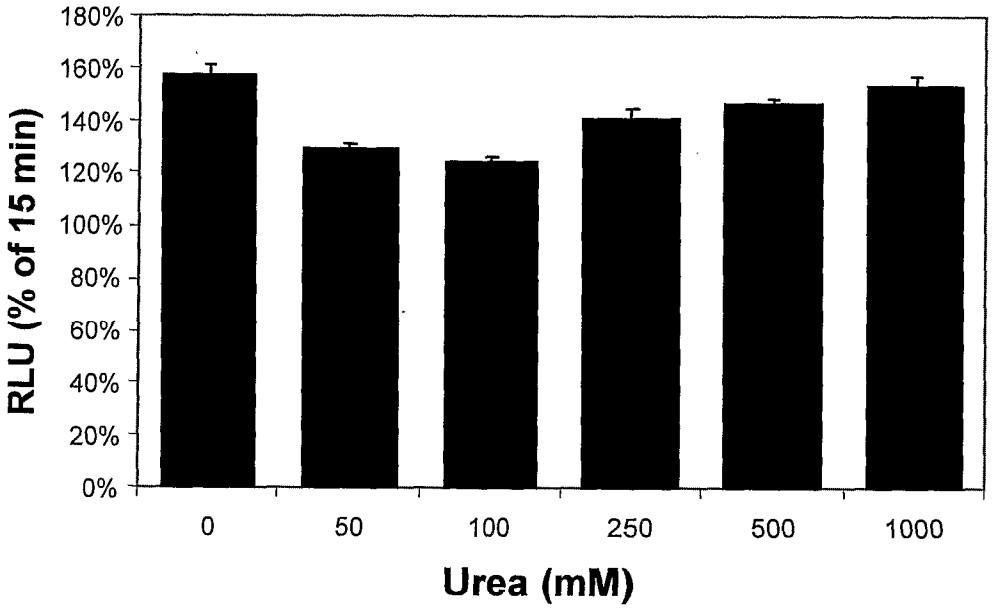
180%
160%
140%
120%
100%
80%
60%
40%
20%
0%
RLU (% of 15 min)
0
50
100
250
500
1000
Urea (mM)

FIG. 24

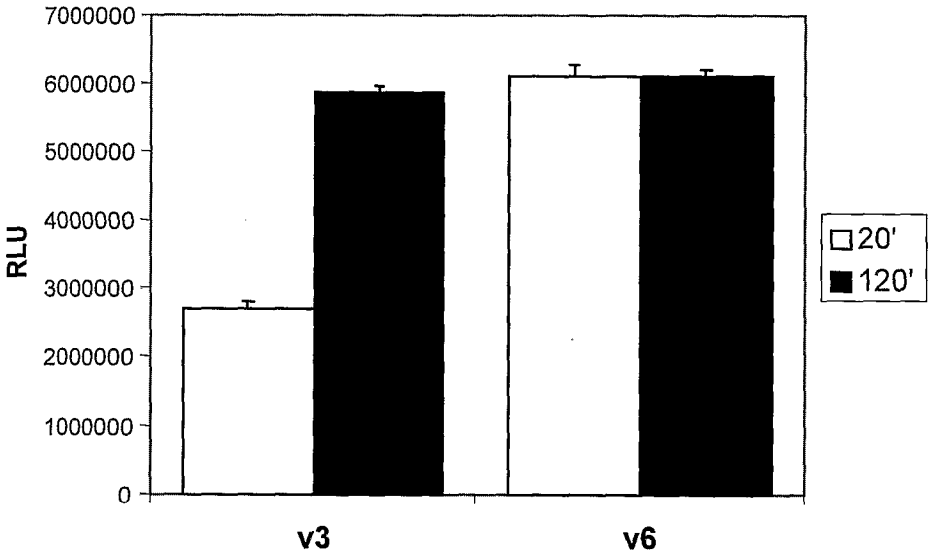
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
RLU
v3
v6
20'
120'

FIG. 25

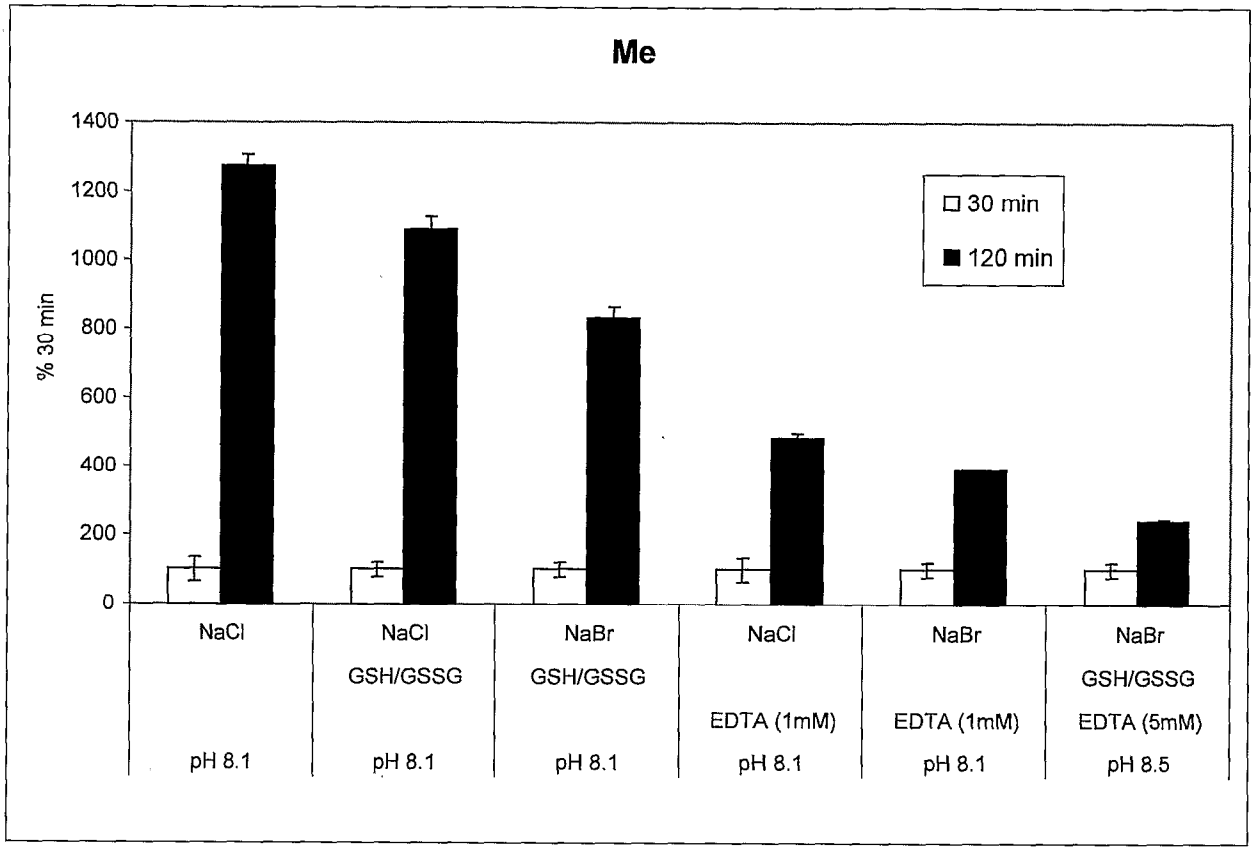
Me
1400
1200
1000
800
600
400
200
0
% 30 min
30 min
120 min
NaCl
pH 8.1
NaCl
GSH/GSSG
pH 8.1
NaBr
GSH/GSSG
pH 8.1
NaCl
EDTA (1mM)
pH 8.1
NaBr
EDTA (1mM)
pH 8.1
NaBr
GSH/GSSG
EDTA (5mM)
pH 8.5

FIG. 26

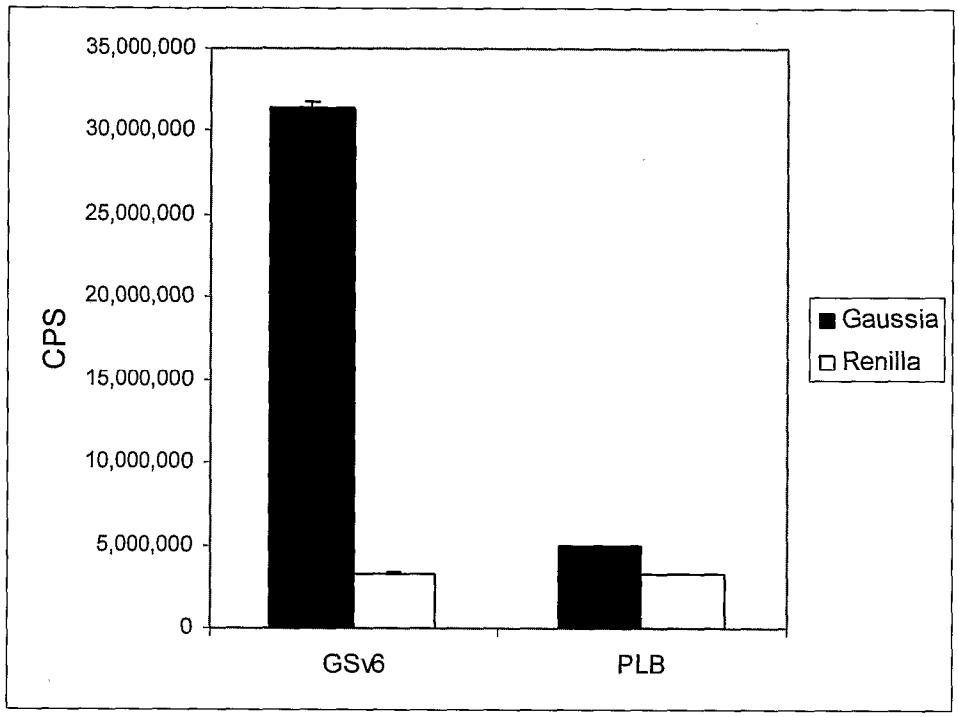

FIG. 27A

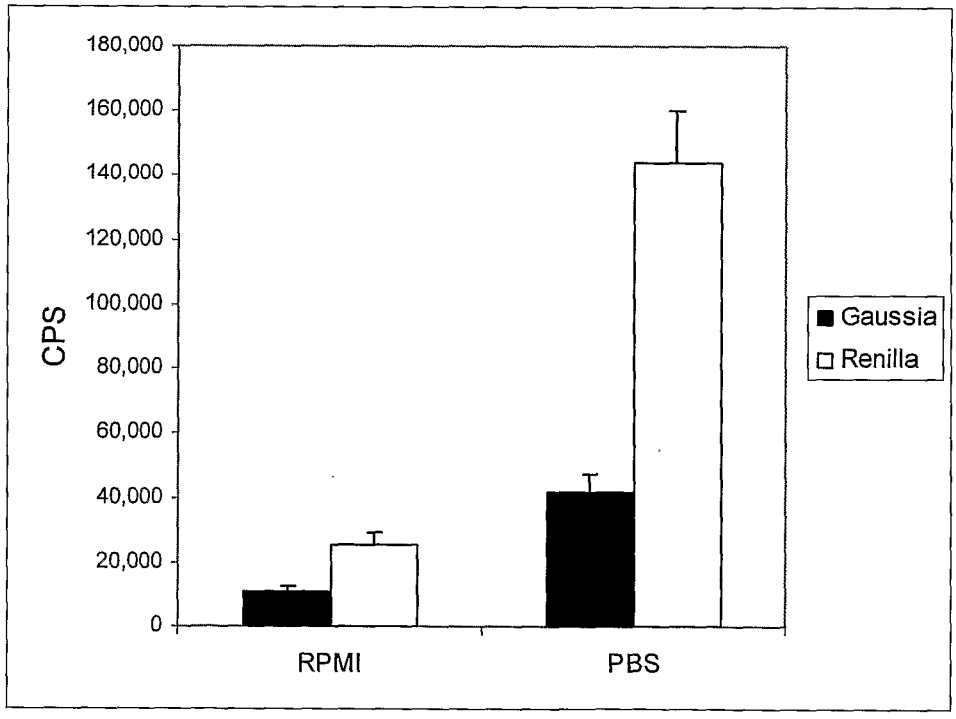

FIG. 27B

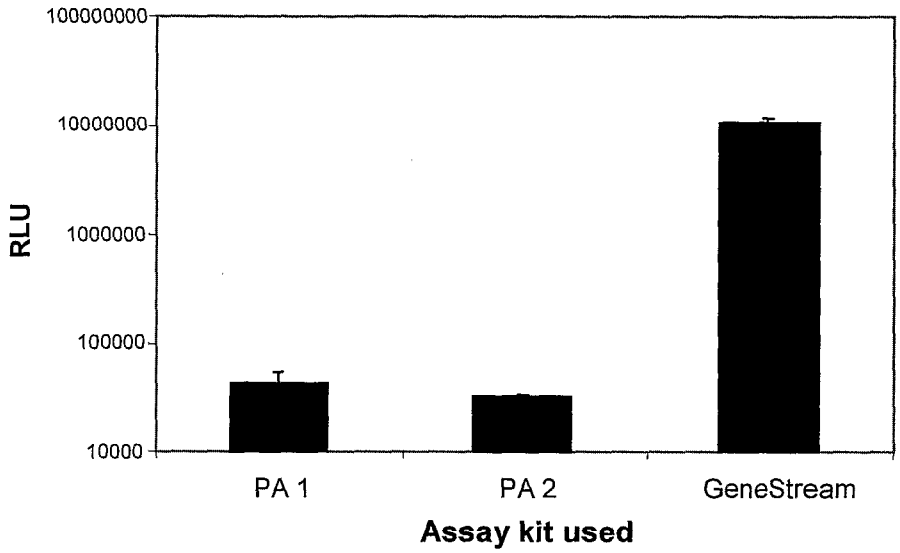
100000000
10000000
1000000
100000
10000
RLU
PA 1
PA 2
GeneStream
Assay kit used

FIG. 28

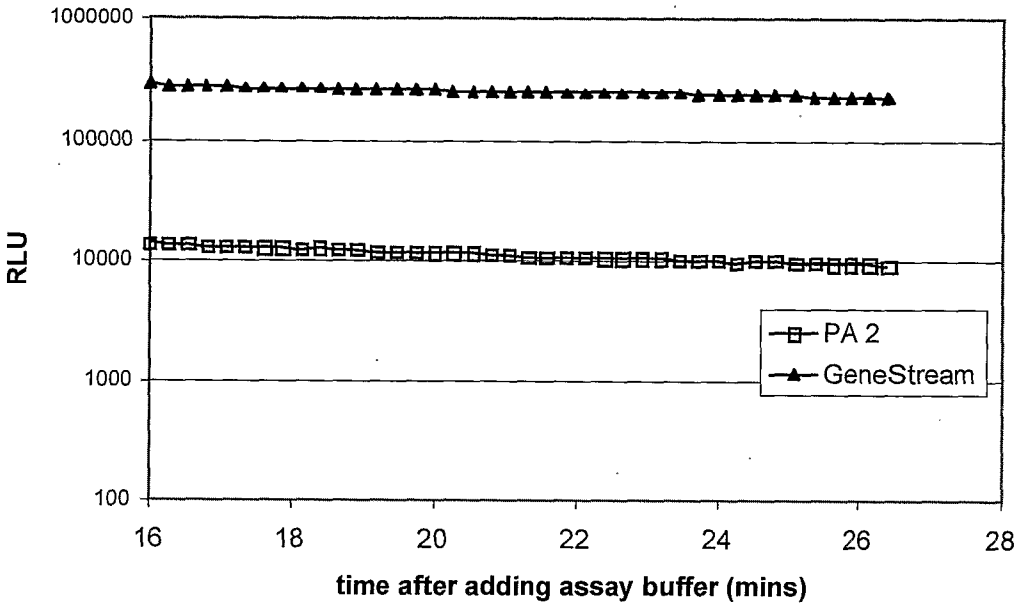

FIG. 29A

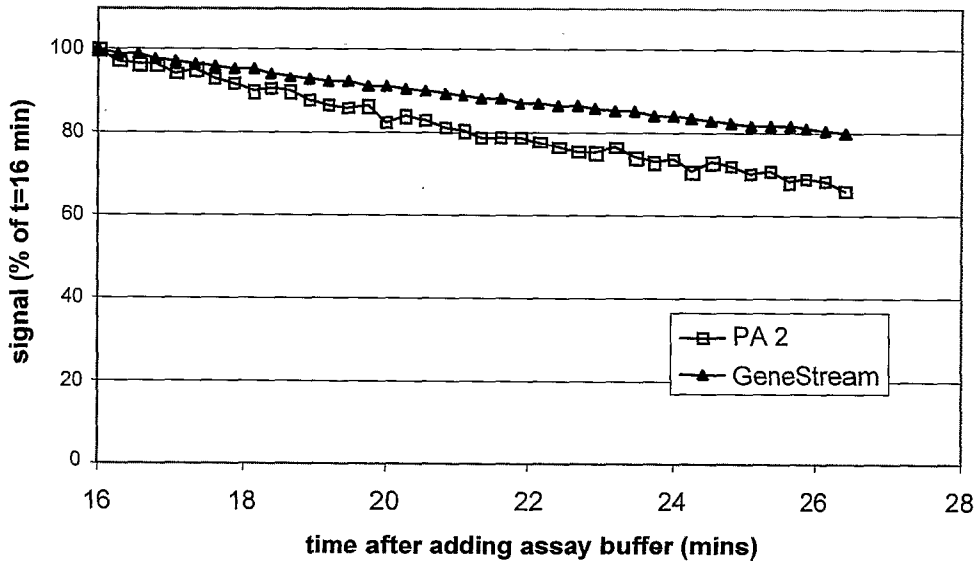

FIG. 29B

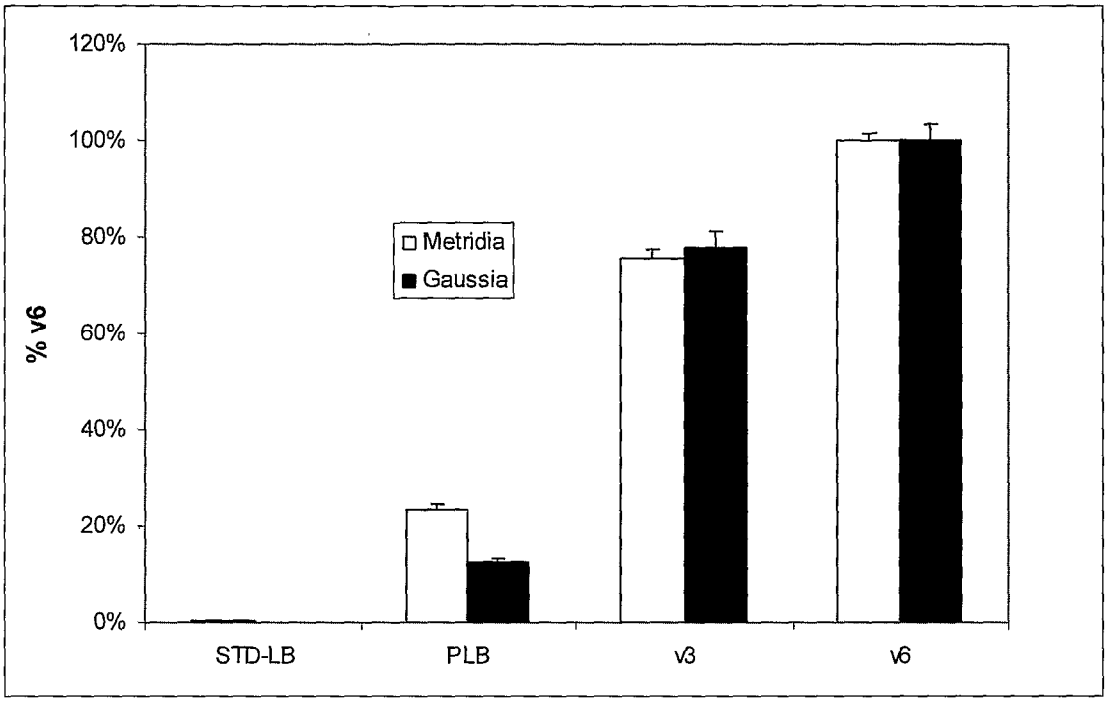

FIG. 30A

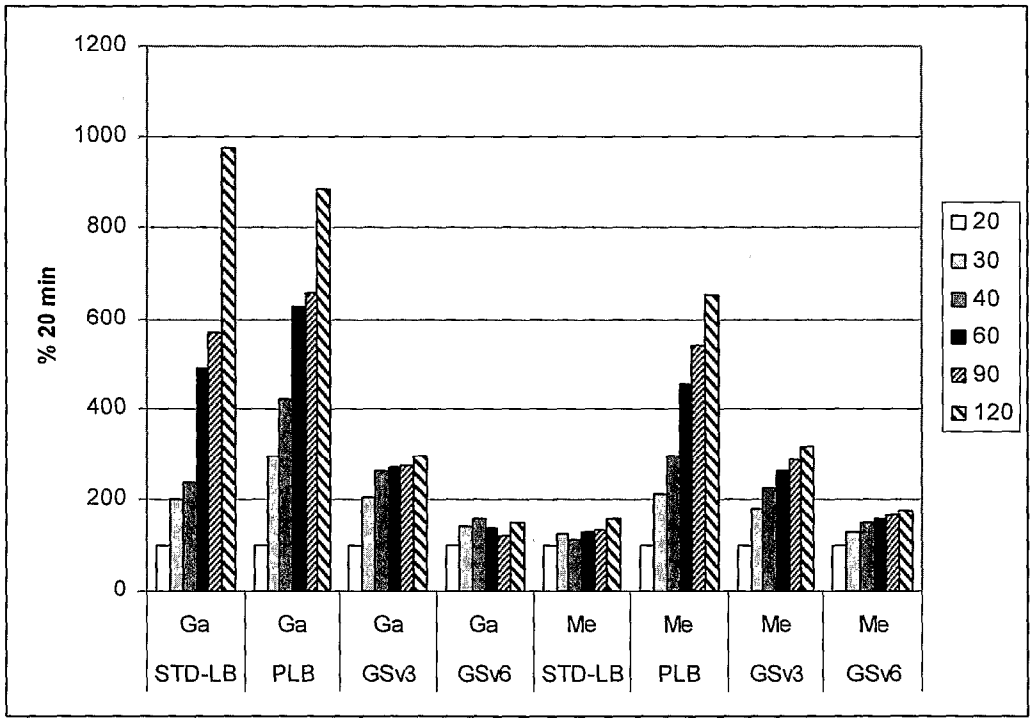

FIG. 30B