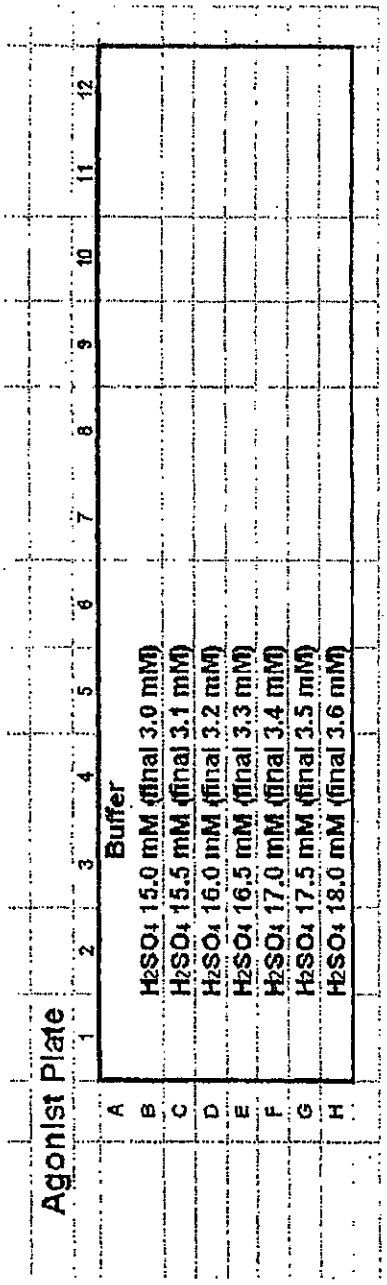

Agonist Plate
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
Buffer
H2SO4 15.0 mM (final 3.0 mM)
H2SO4 15.5 mM (final 3.1 mM)
H2SO4 16.0 mM (final 3.2 mM)
H2SO4 16.5 mM (final 3.3 mM)
H2SO4 17.0 mM (final 3.4 mM)
H2SO4 17.5 mM (final 3.5 mM)
H2SO4 18.0 mM (final 3.6 mM)

FIG. 1

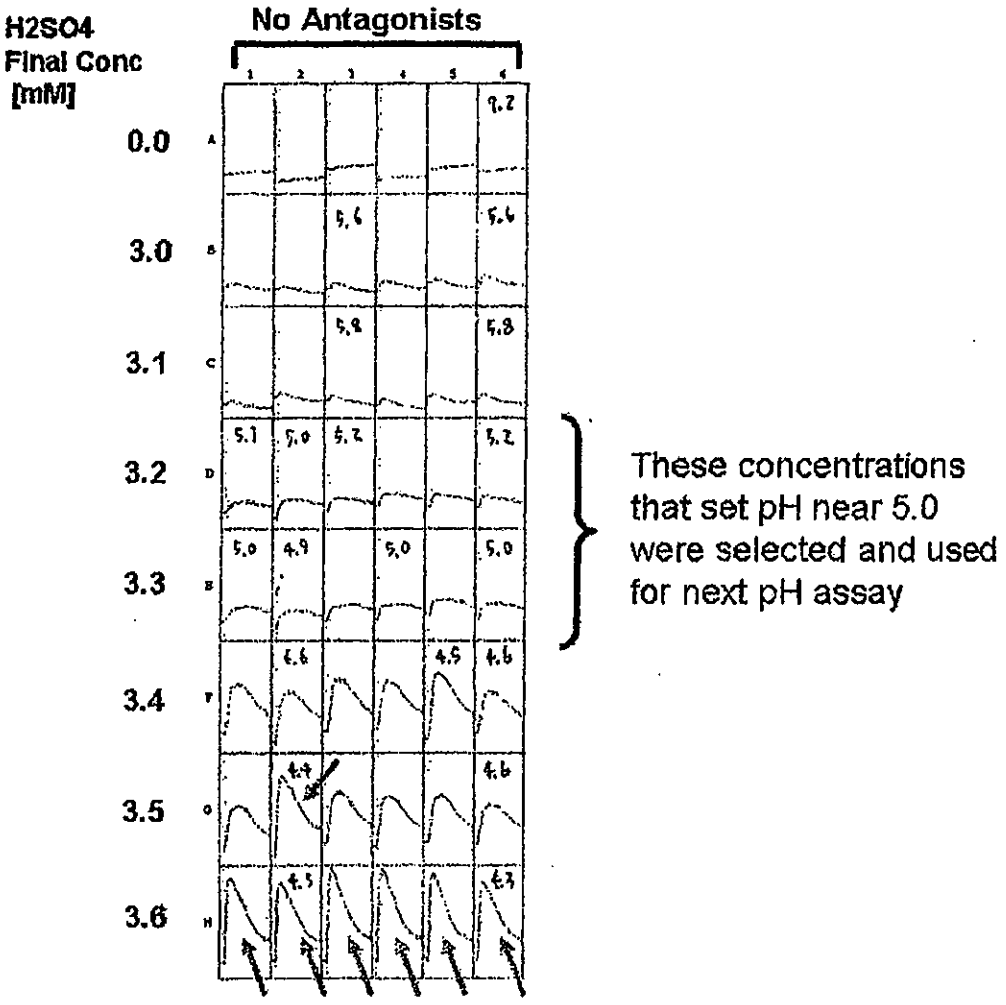

H2SO4
Final Conc
[mM]
No Antagonists
0.0
3.0
3.1
3.2
3.3
3.4
3.5
3.6
These concentrations that set pH near 5.0 were selected and used for next pH assay

FIG. 2

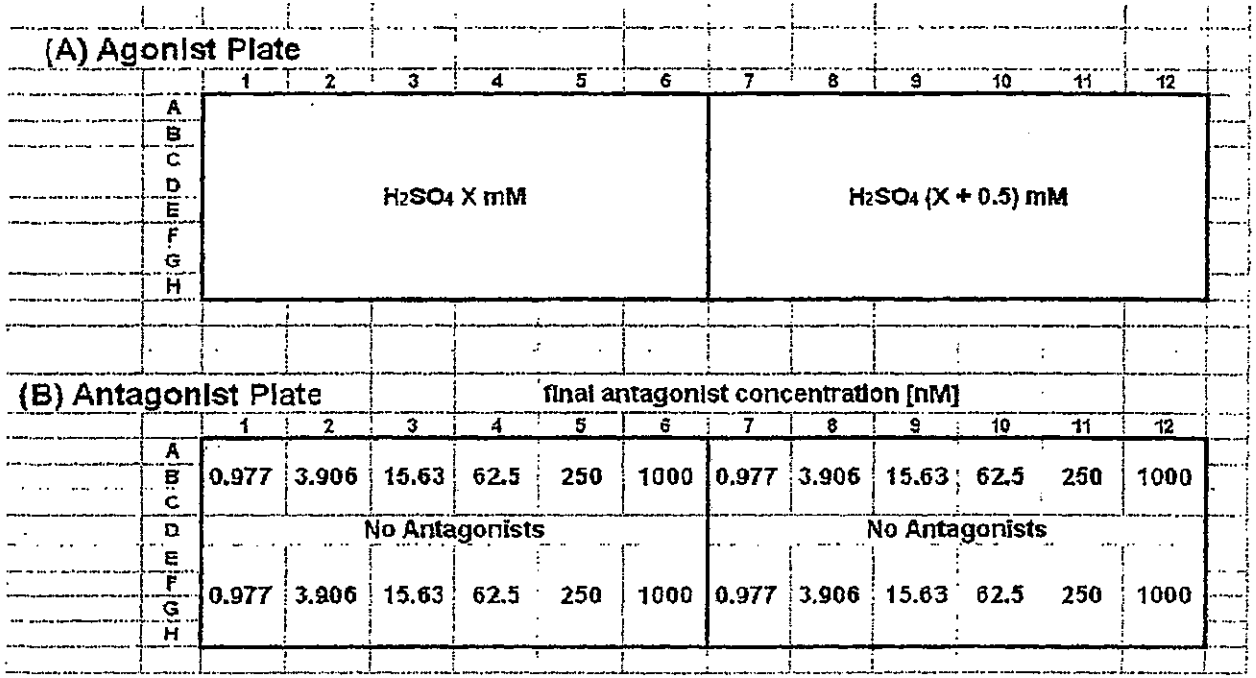

(A) Agonist Plate
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
H2SO4 X mM
H2SO4 (X + 0.5) mM
(B) Antagonist Plate
final antagonist concentration [nM]
1 2 3 4 5 6 7 8 9 10 11 12
A
B 0.977 3.906 15.63 62.5 250 1000 0.977 3.906 15.63 62.5 250 1000
C
D No Antagonists No Antagonists
E
F 0.977 3.906 15.63 62.5 250 1000 0.977 3.906 15.63 62.5 250 1000
G
H

FIG. 3