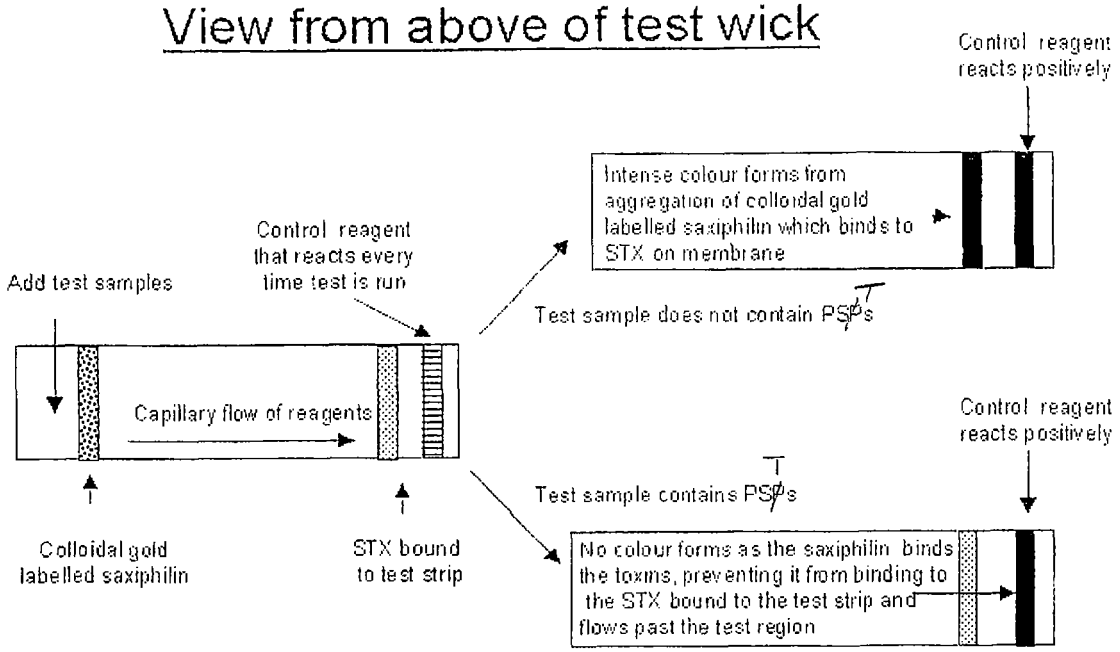
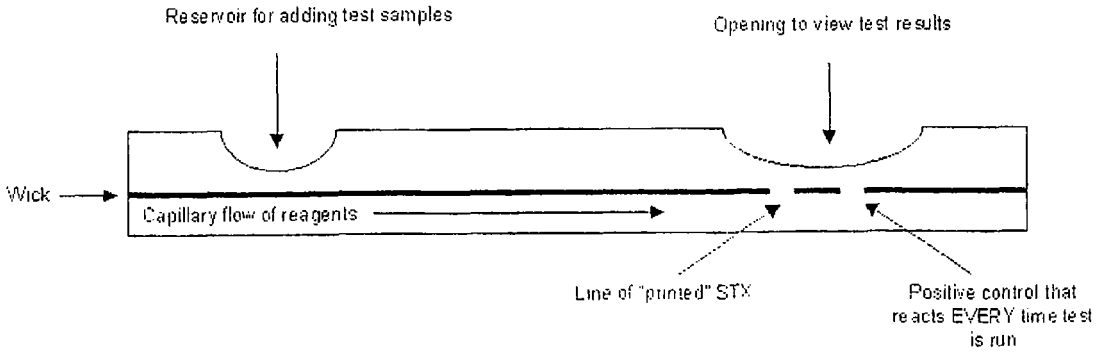
163163



View from above of test wick



View from side of test device





G00002

Figure 1

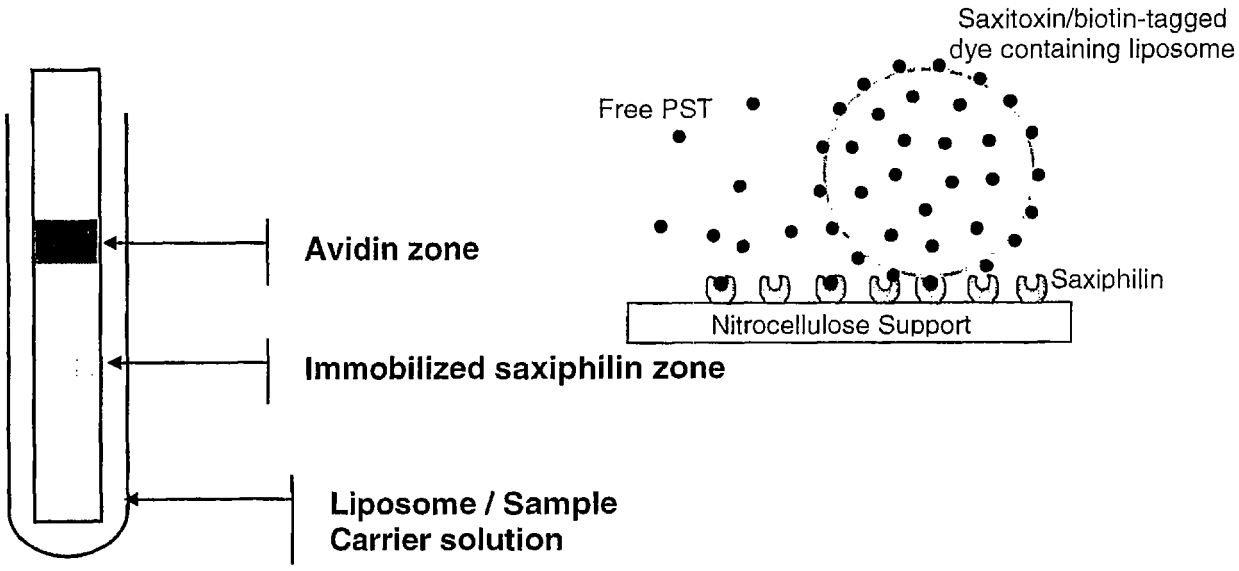


Fig. 2. Saxiphilin migration assay device

Figure 2

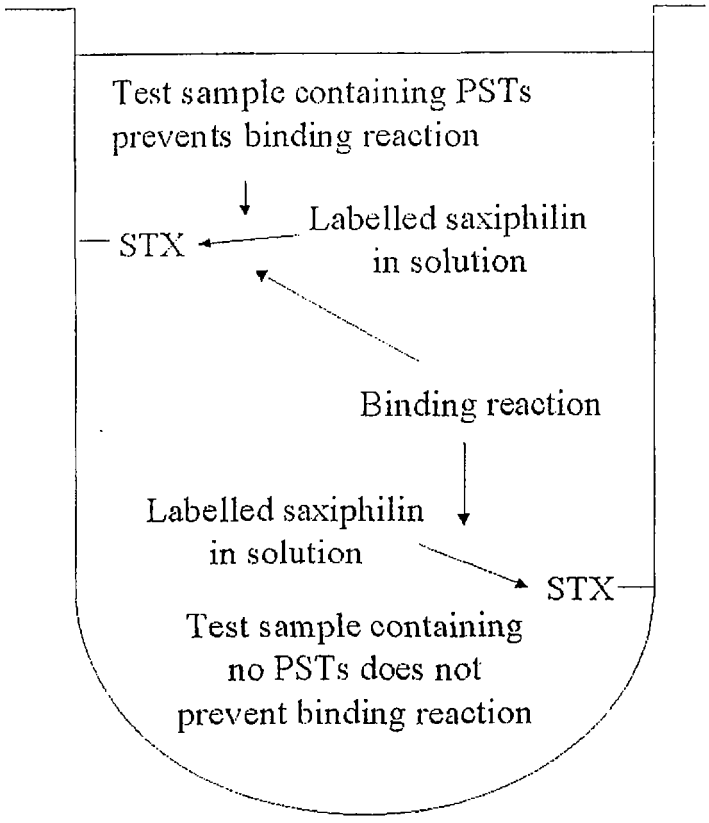

Test sample containing PSTs prevents binding reaction
Labelled saxiphilin in solution
STX
Binding reaction
Labelled saxiphilin in solution
STX
Test sample containing no PSTs does not prevent binding reaction

Figure 3

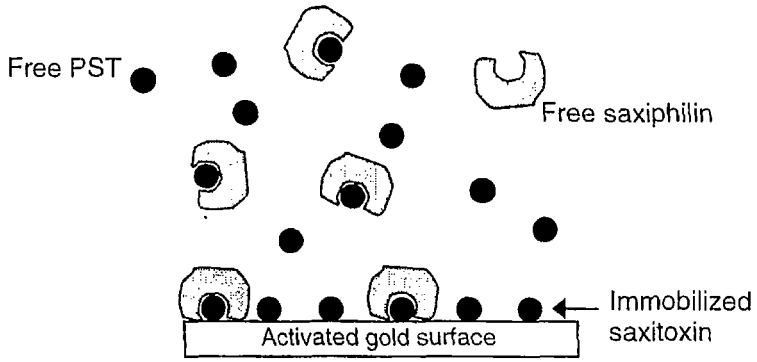

Free PST
Free saxiphilin
Immobilized
saxitoxin
Activated gold surface

Figure 4

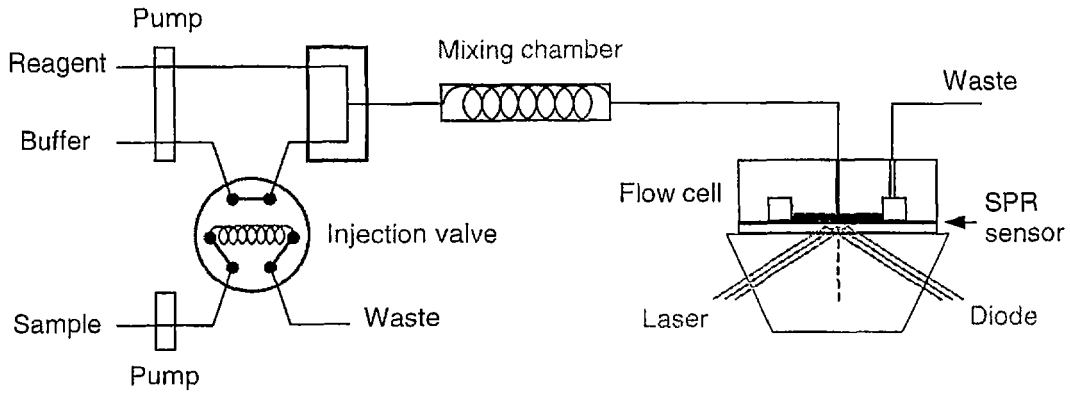


Fig. 5. Flow-injection SPR assay

Figure 5

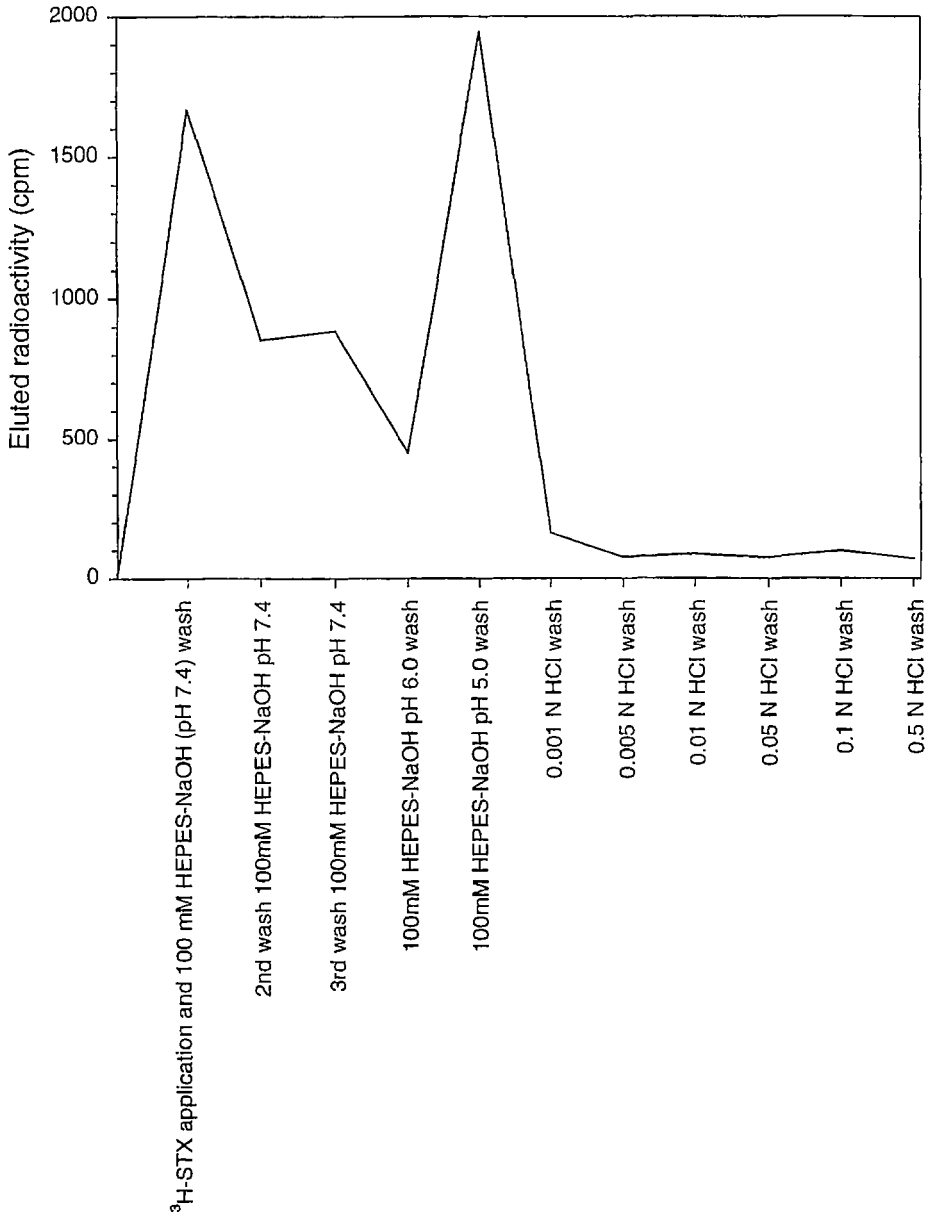

Eluted radioactivity (cpm)
2000
1500
1000
500
0
^{3}H-STX application and 100 mM HEPES-NaOH (pH 7.4) wash
2nd wash 100mM HEPES-NaOH pH 7.4
3rd wash 100mM HEPES-NaOH pH 7.4
100mM HEPES-NaOH pH 6.0 wash
100mM HEPES-NaOH pH 5.0 wash
0.001 N HCl wash
0.005 N HCl wash
0.01 N HCl wash
0.05 N HCl wash
0.1 N HCl wash
0.5 N HCl wash

Figure 6

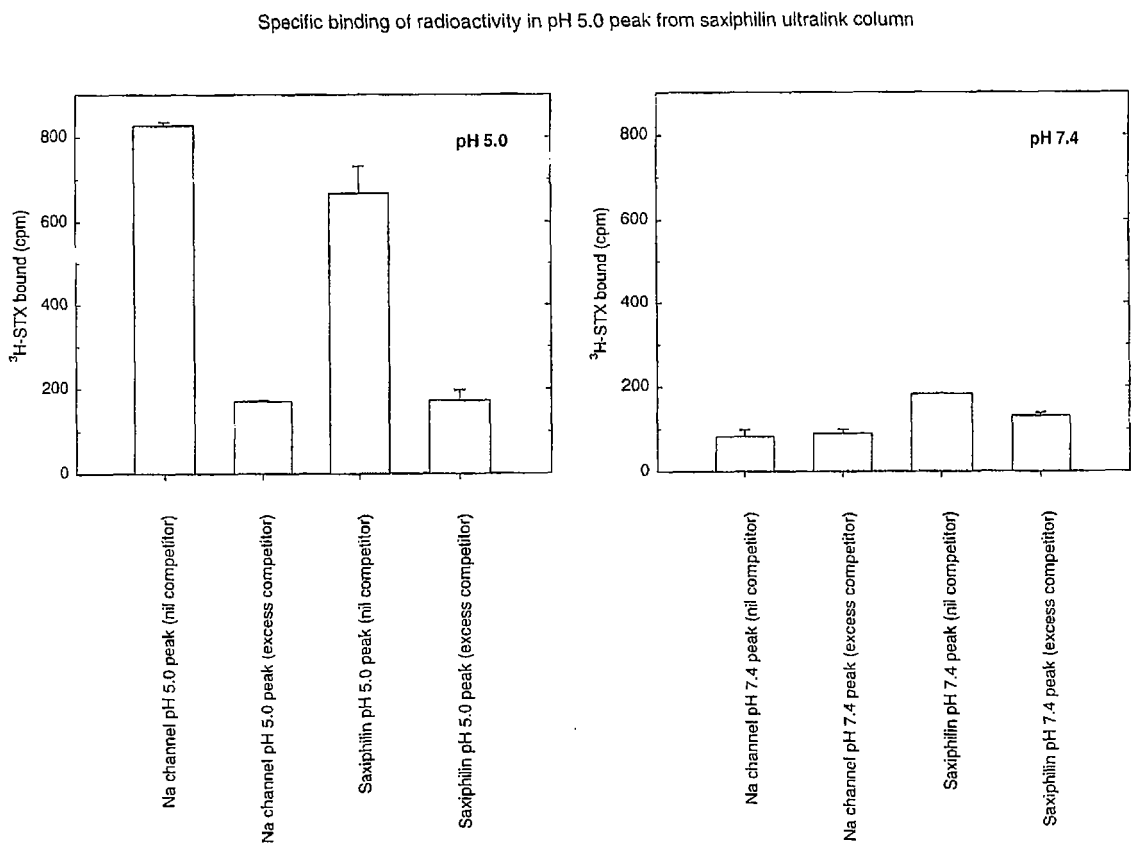

Specific binding of radioactivity in pH 5.0 peak from saxiphilin ultralink column
pH 5.0
pH 7.4
^{3}H-STX bound (cpm)
0
200
400
600
800
Na channel pH 5.0 peak (nil competitor)
Na channel pH 5.0 peak (excess competitor)
Saxiphilin pH 5.0 peak (nil competitor)
Saxiphilin pH 5.0 peak (excess competitor)
Na channel pH 7.4 peak (nil competitor)
Na channel pH 7.4 peak (excess competitor)
Saxiphilin pH 7.4 peak (nil competitor)
Saxiphilin pH 7.4 peak (excess competitor)

Figure 7

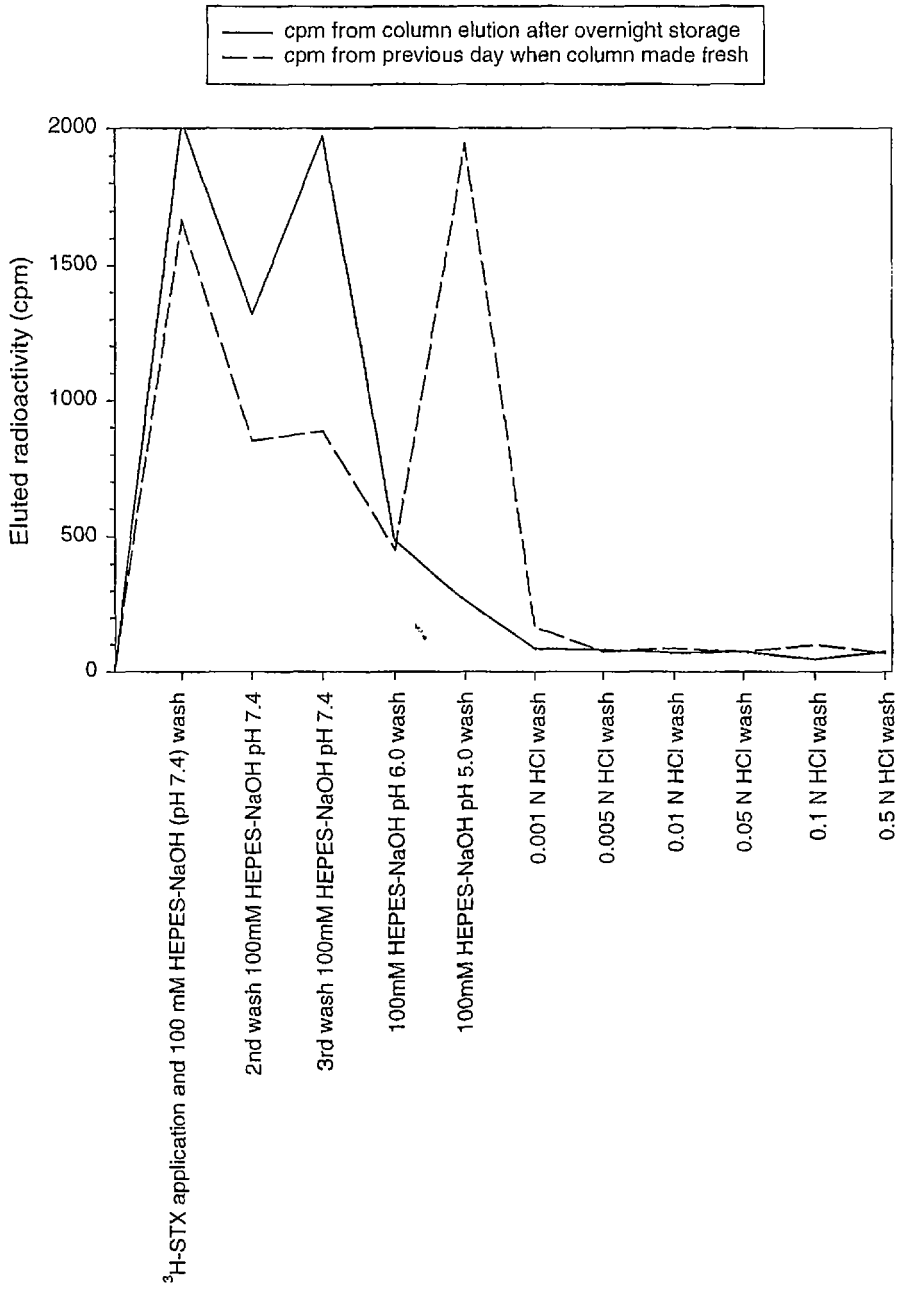

cpm from column elution after overnight storage
cpm from previous day when column made fresh
Eluted radioactivity (cpm)
2000
1500
1000
500
0
^{3}H-STX application and 100 mM HEPES-NaOH (pH 7.4) wash
2nd wash 100mM HEPES-NaOH pH 7.4
3rd wash 100mM HEPES-NaOH pH 7.4
100mM HEPES-NaOH pH 6.0 wash
100mM HEPES-NaOH pH 5.0 wash
0.001 N HCl wash
0.005 N HCl wash
0.01 N HCl wash
0.05 N HCl wash
0.1 N HCl wash
0.5 N HCl wash

Figure 8