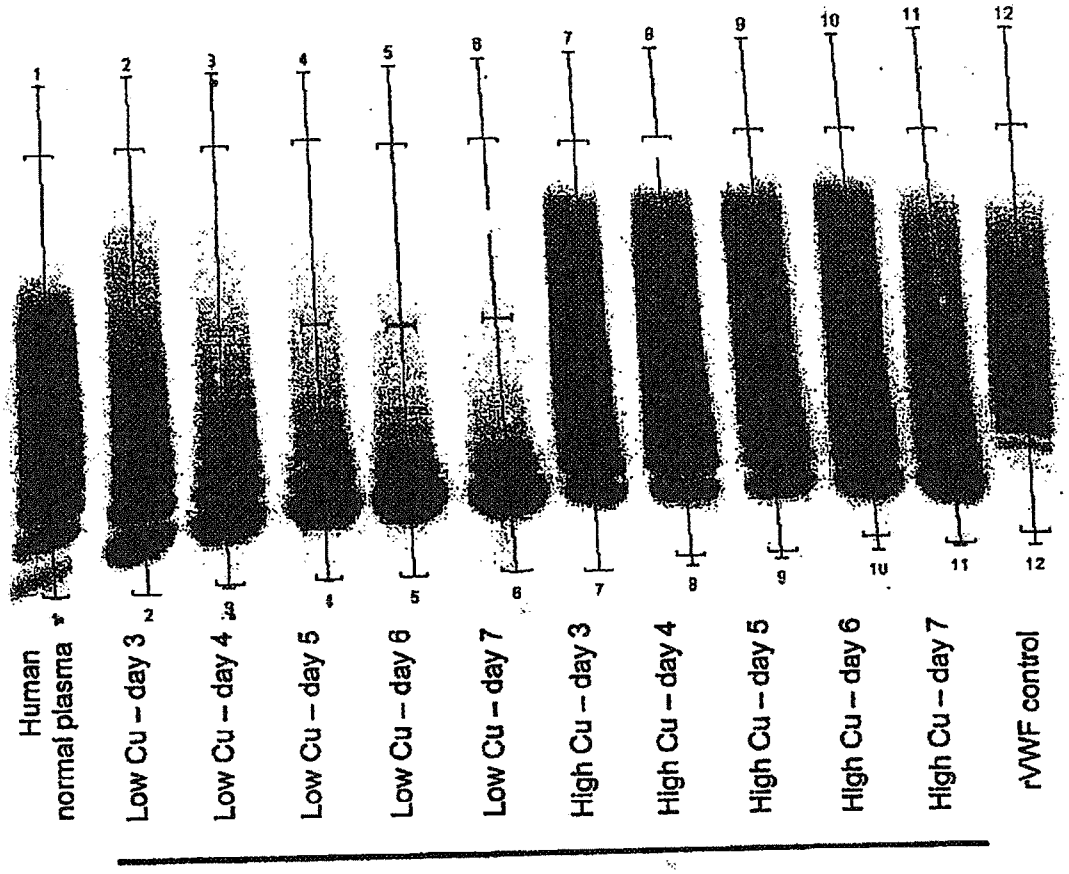

1
2
3
4
5
6
7
8
9
10
11
12
Human normal plasma
Low Cu – day 3
Low Cu – day 4
Low Cu – day 5
Low Cu – day 6
Low Cu – day 7
High Cu – day 3
High Cu – day 4
High Cu – day 5
High Cu – day 6
High Cu – day 7
rVWF control

FIG. 1A

Lane Number	Band Number	Trace Int x mm	Relative Qty
1	1	809715.2	**74.5**
1	2	277519.7	**25.5**
2	1	681110.1	**83.7**
2	2	132376.5	**16.3**
3	1	568177	**90.2**
3	2	61619.3	**9.8**
4	1	500725.4	**94.0**
4	2	31815.3	**6.0**
5	1	433194.4	**95.9**
5	4	18307.3	**4.1**
6	1	412190.2	**95.9**
6	2	17441	**4.1**
7	1	842215.1	**72.0**
7	2	327960.1	**28.0**
8	1	723836.4	**70.5**
8	2	303095.4	**29.5**
9	1	739912.7	**68.7**
9	2	337575.1	**31.3**
10	1	929848.4	**68.6**
10	2	425784.2	**31.4**
11	1	684679.9	**78.6**
11	2	185964.5	**21.4**
12	3	512298.6	**66.7**
12	4	256326.7	**33.3**

FIG. 1B

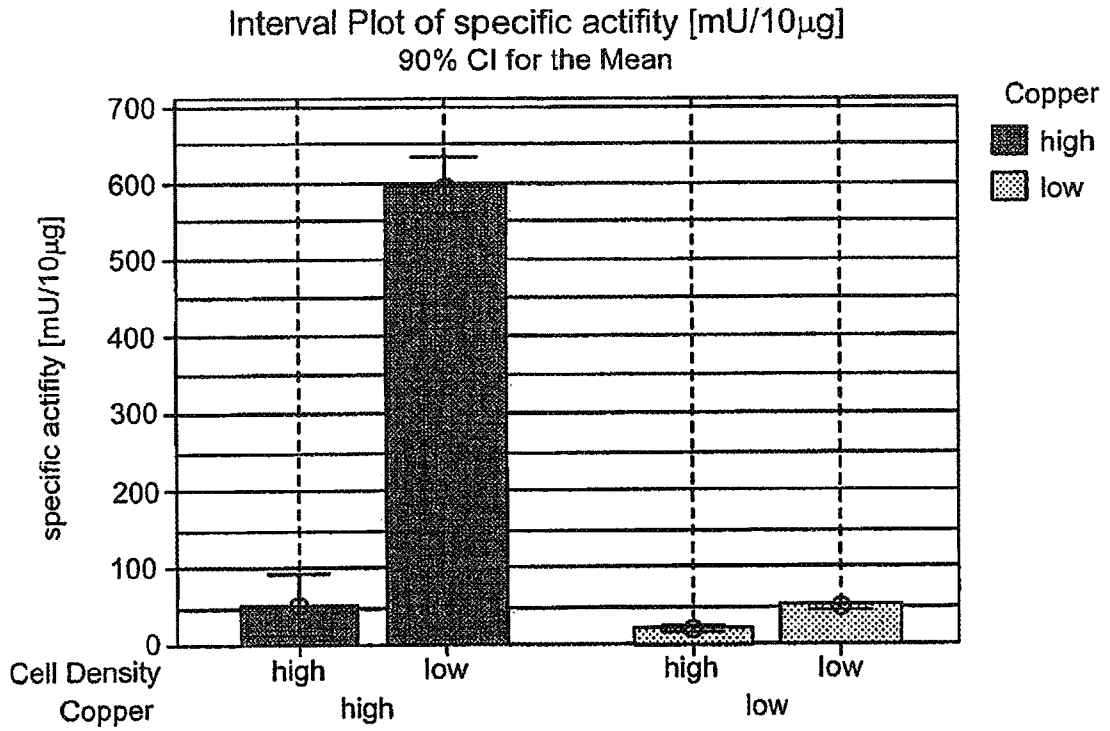

Interval Plot of specific actifity [mU/10µg]
90% CI for the Mean
specific actifity [mU/10µg]
700
600
500
400
300
200
100
0
Cell Density
Copper
high
low
high
low
high
low
Copper
high
low

FIG. 2A

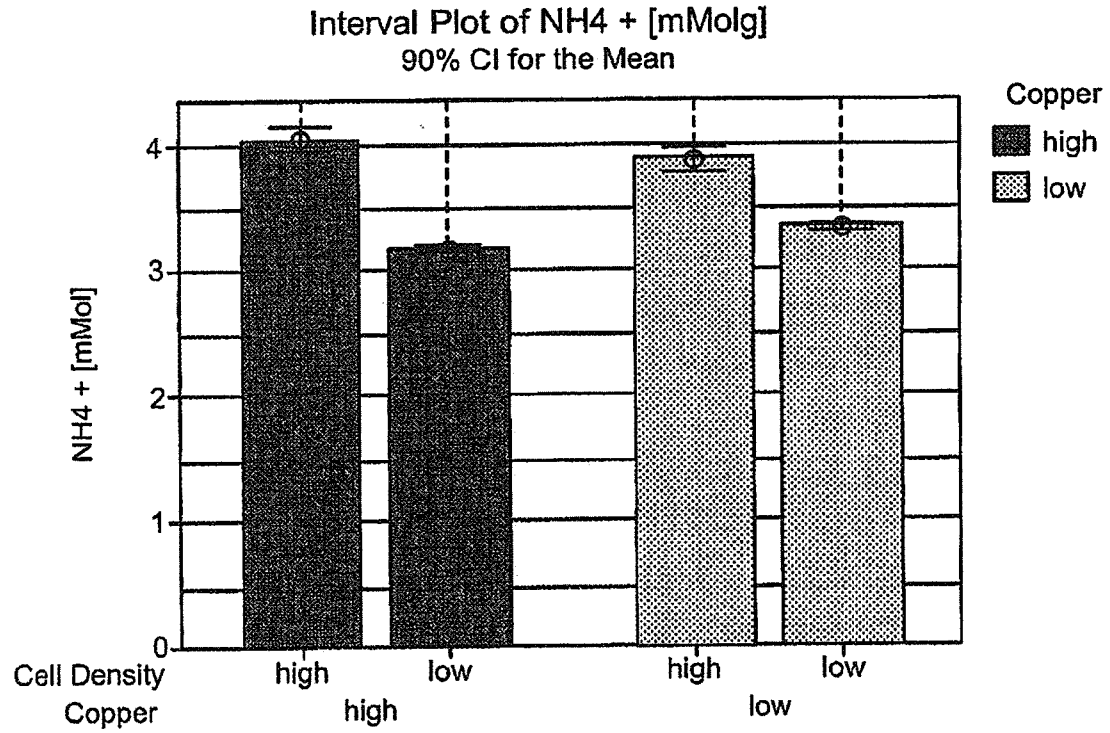

Interval Plot of NH4 + [mMolg]
90% CI for the Mean
NH4 + [mMol]
4
3
2
1
0
Cell Density
Copper
high
low
high
low
high
low
Copper
high
low

FIG. 2B

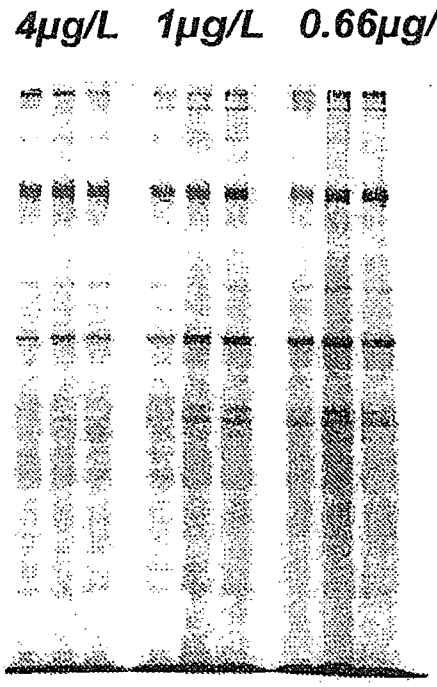


FIG. 3A

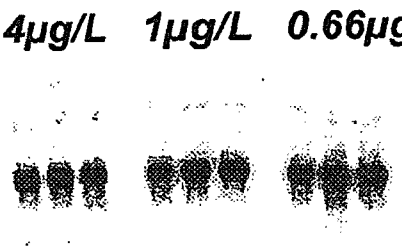


FIG. 3B

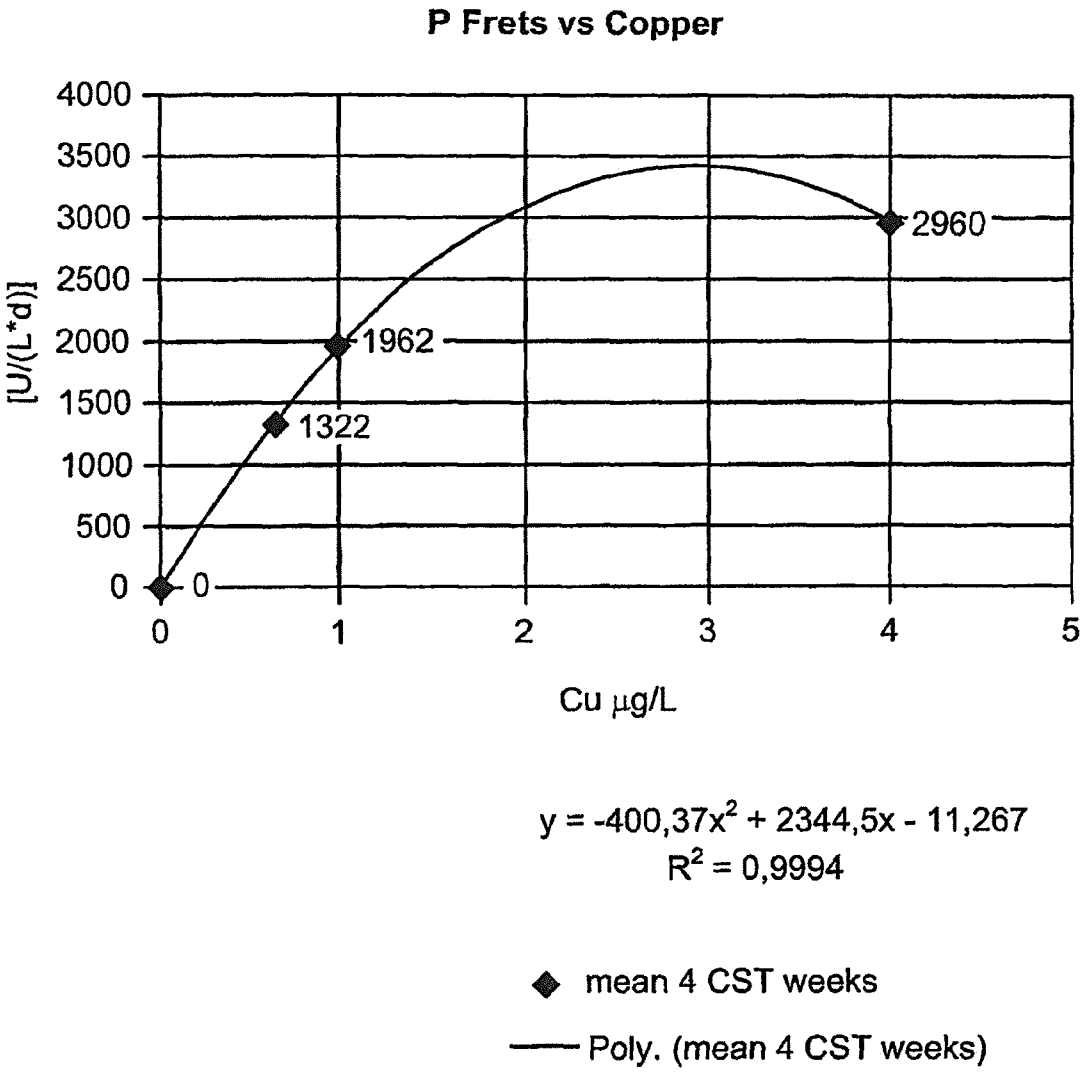

P Frets vs Copper
4000
3500
3000
2500
2000
1500
1000
500
0
[U/(L*d)]
0
1322
1962
2960
0
1
2
3
4
5
Cu µg/L
y = -400,37x² + 2344,5x - 11,267
R² = 0,9994
mean 4 CST weeks
Poly. (mean 4 CST weeks)

FIG. 4

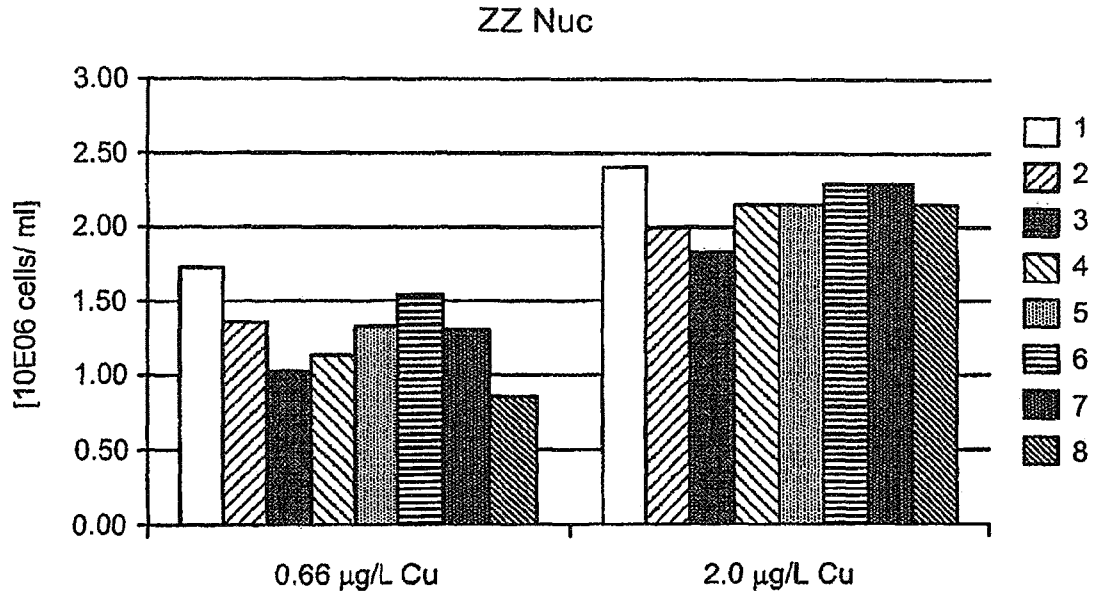

ZZ Nuc
[10E06 cells/ ml]
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5A

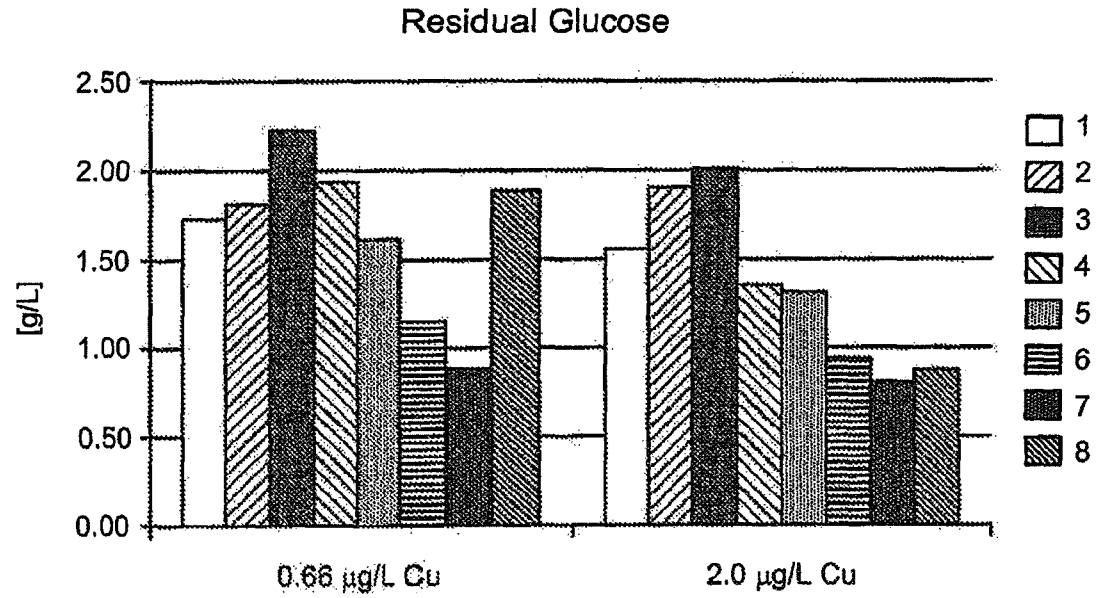

Residual Glucose
[g/L]
2.50
2.00
1.50
1.00
0.50
0.00
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5B

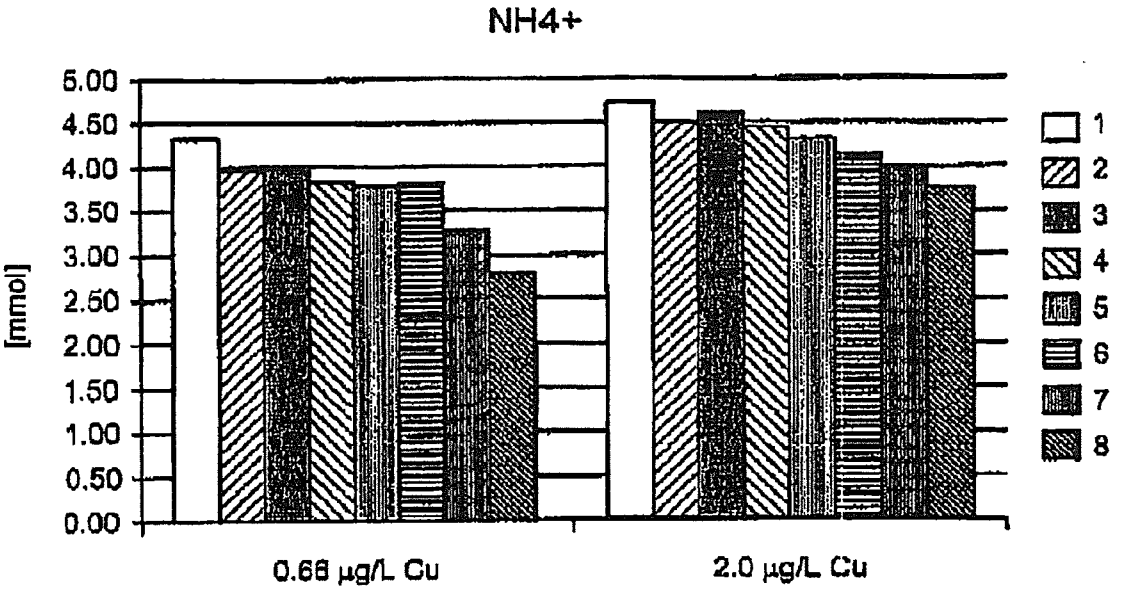

NH4+
[mmol]
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0.68 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5C

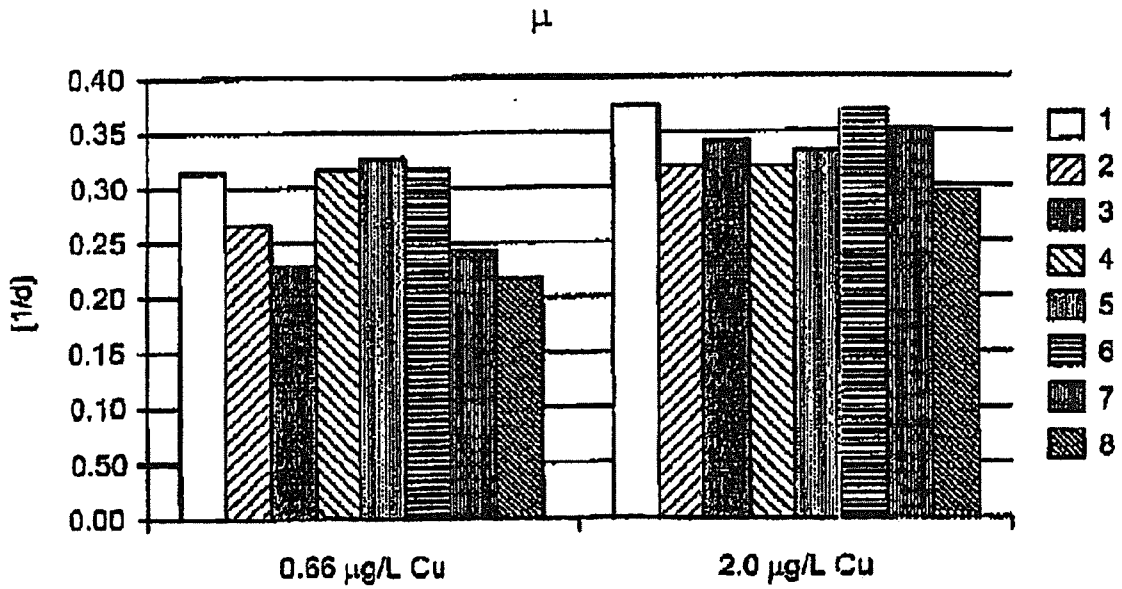

µ
[1/d]
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.50
0.00
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5D

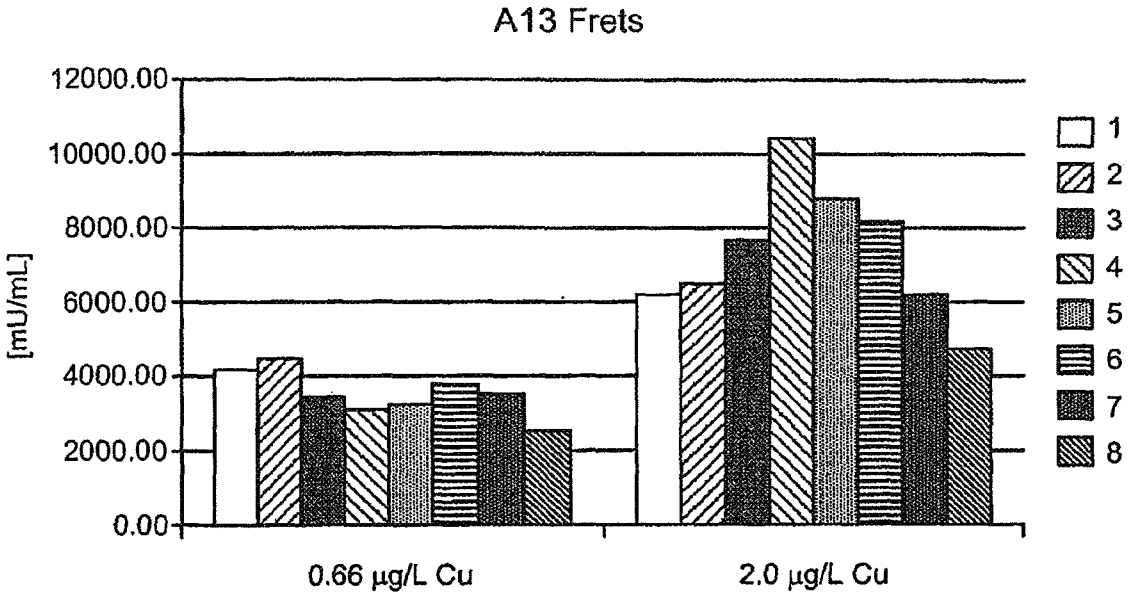

A13 Frets
12000.00
10000.00
8000.00
6000.00
4000.00
2000.00
0.00
[mU/mL]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5E

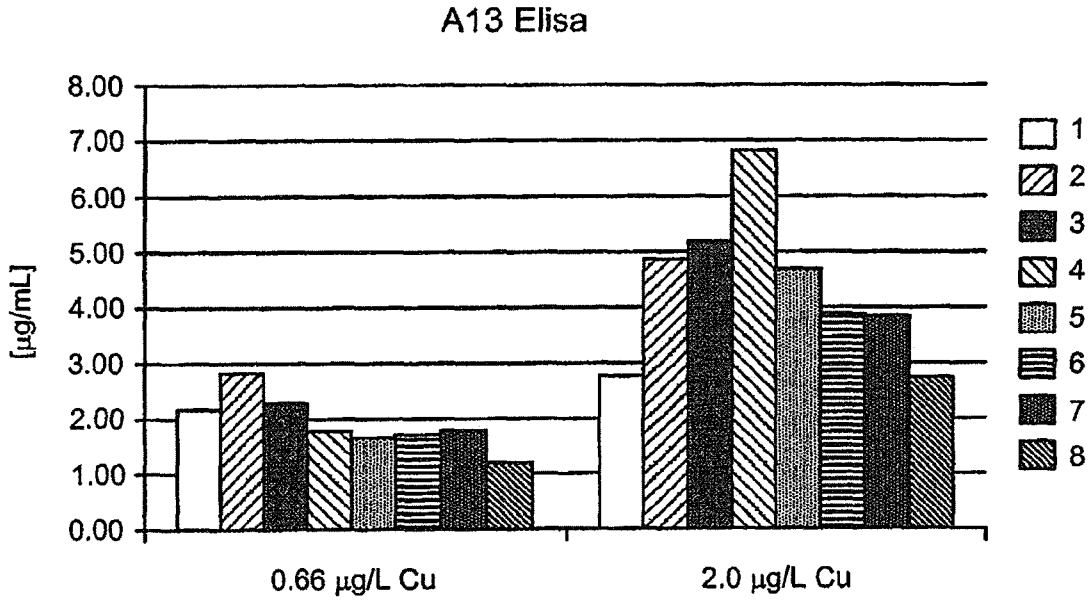

A13 Elisa
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
[µg/mL]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5F

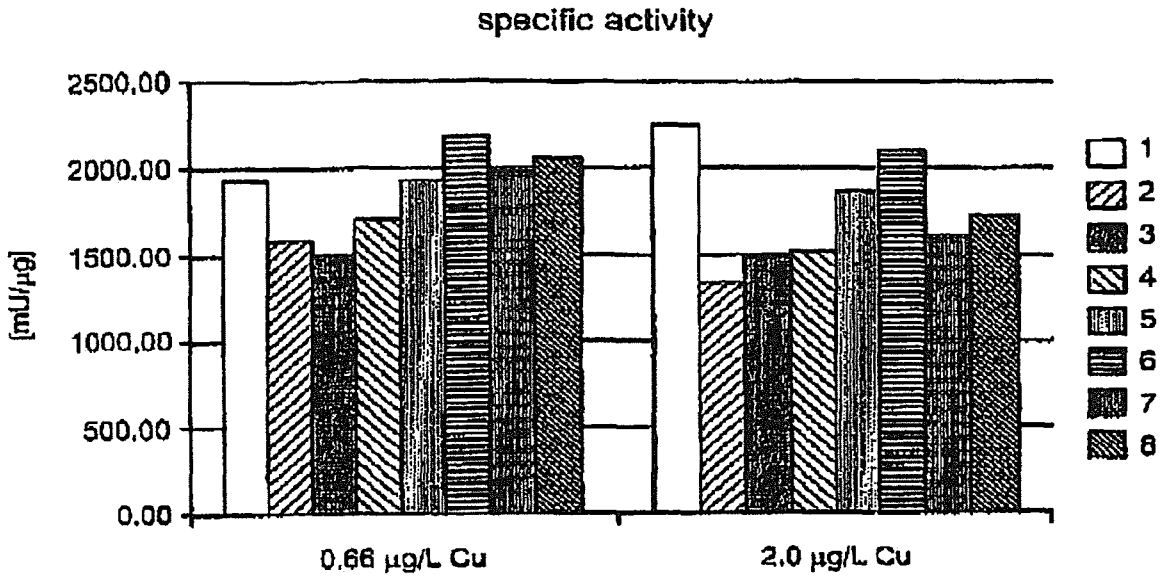

specific activity
2500.00
2000.00
1500.00
1000.00
500.00
0.00
[mU/mg]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5G

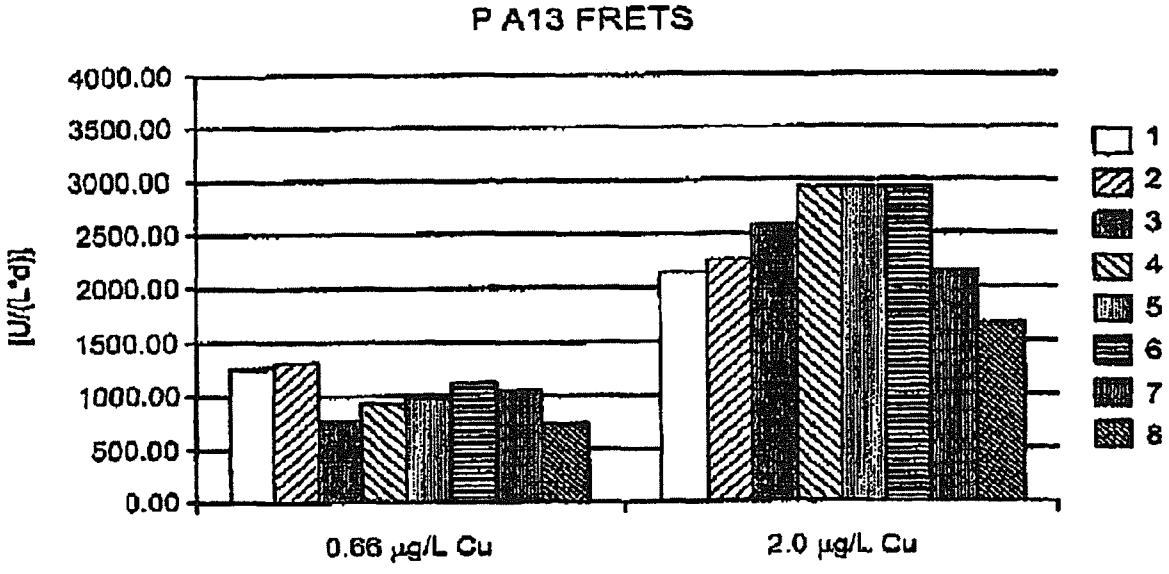

P A13 FRETS
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
[U/L*d]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5H

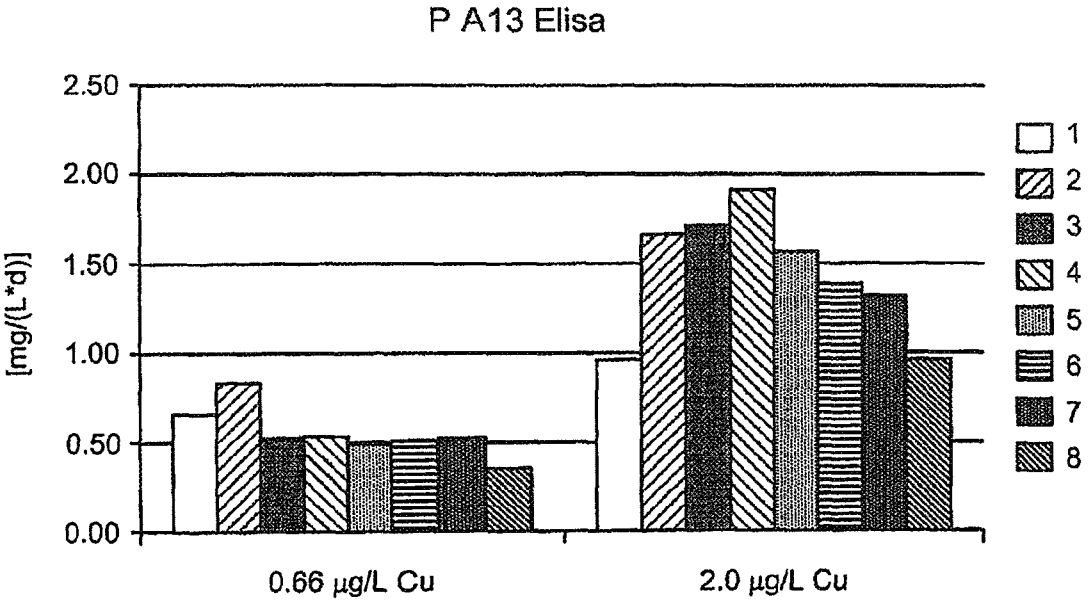

P A13 Elisa
2.50
2.00
1.50
1.00
0.50
0.00
[mg/(L*d)]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5I

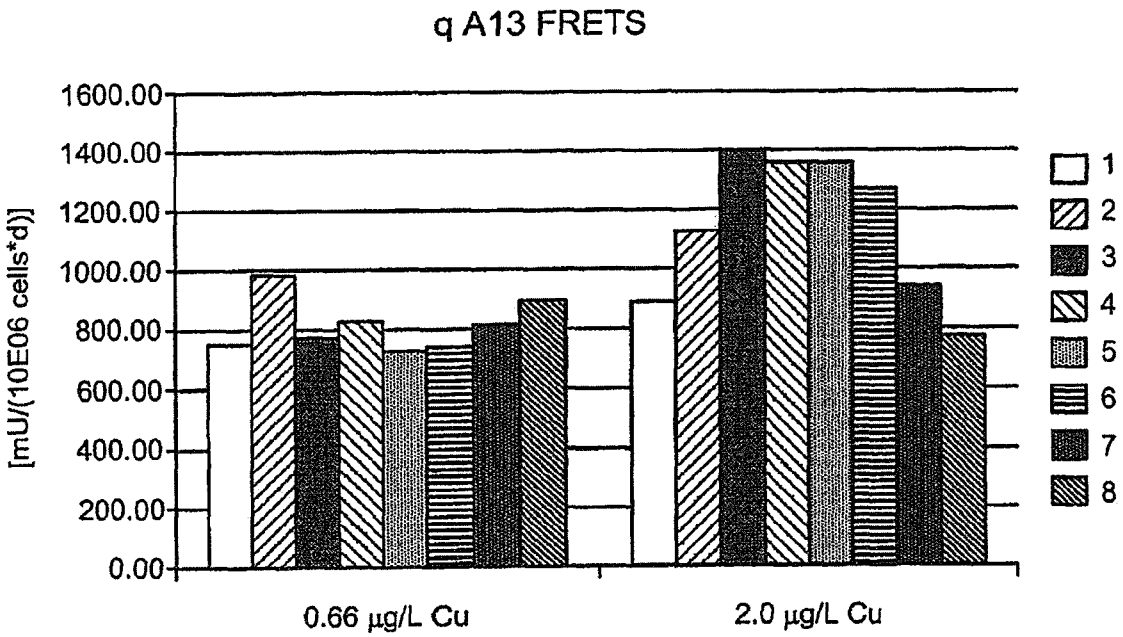

q A13 FRETS
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
[mU/(10E06 cells*d)]
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5J

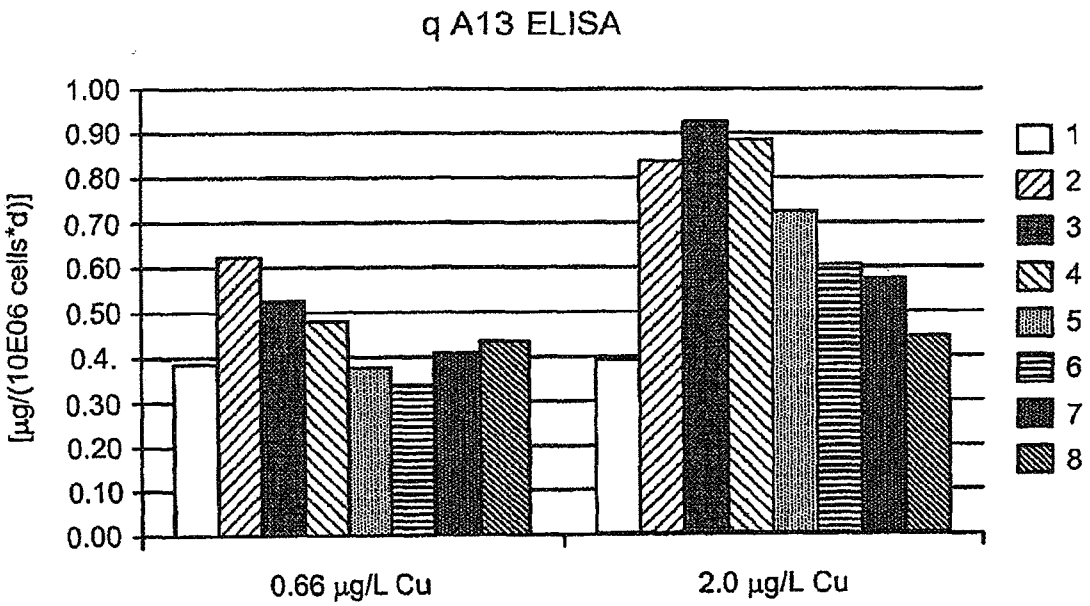

q A13 ELISA
[µg/(10E06 cells*d)]
1.00
0.90
0.80
0.70
0.60
0.50
0.4.
0.30
0.20
0.10
0.00
0.66 µg/L Cu
2.0 µg/L Cu
1
2
3
4
5
6
7
8

FIG. 5K

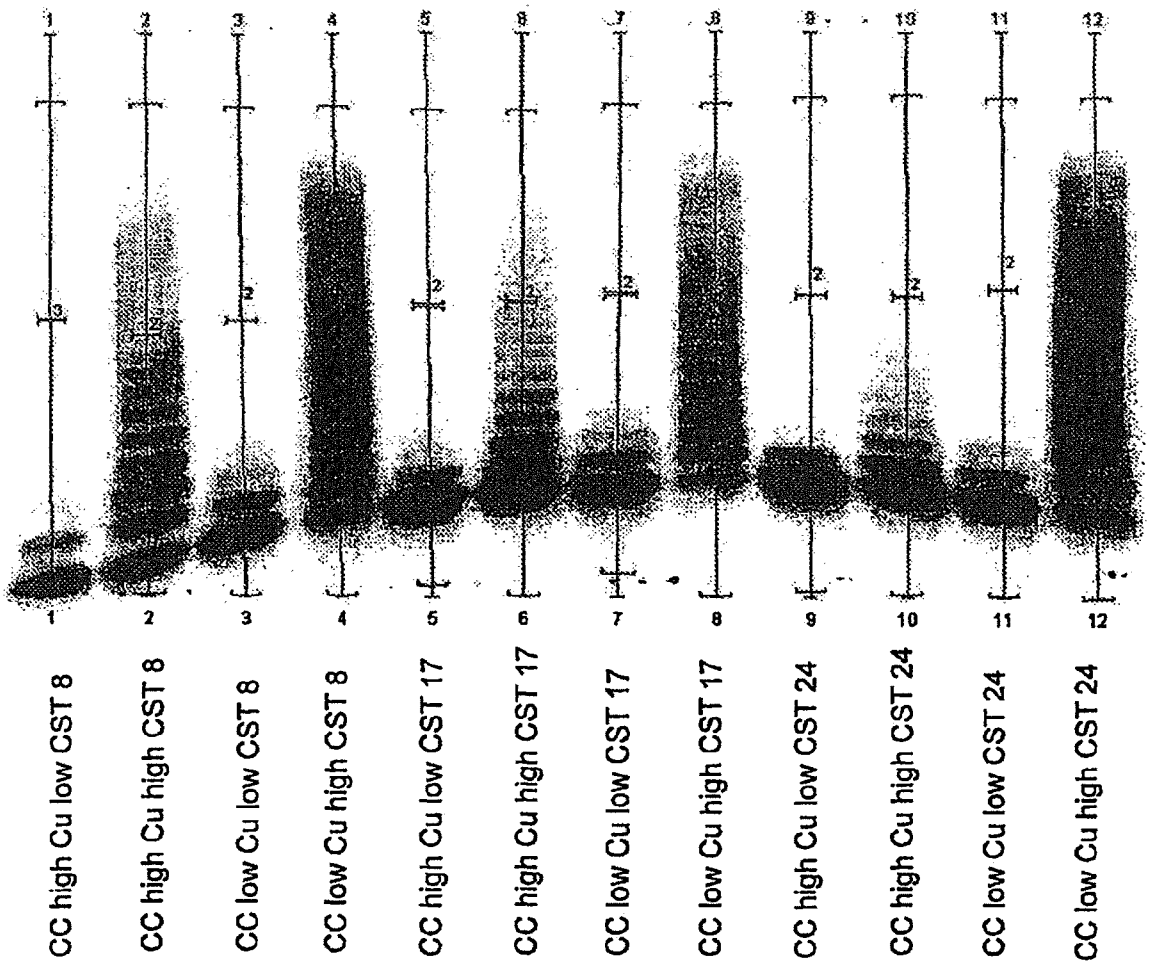

1
2
3
4
5
6
7
8
9
10
11
12
CC high Cu low CST 8
CC high Cu high CST 8
CC low Cu low CST 8
CC low Cu high CST 8
CC high Cu low CST 17
CC high Cu high CST 17
CC low Cu low CST 17
CC low Cu high CST 17
CC high Cu low CST 24
CC high Cu high CST 24
CC low Cu low CST 24
CC low Cu high CST 24

FIG. 6A

Lane Number	Band Number	Trace Int x mm	Relative Qty
1	1	155657.0	97.2
1	2	4453.3	2.8
2	1	419998.6	87.6
2	2	59416.6	12.4
3	1	225344.4	97.4
3	2	5898.2	2.6
4	1	557340.0	73.2
4	2	203807.5	26.8
5	1	248653.8	97.8
5	2	5599.8	2.2
6	1	434040.2	95.4
6	2	20823.4	4.6
7	1	238580.2	97.9
7	2	5159.7	2.1
8	1	322940.6	77.3
8	2	94677.8	22.7
9	1	250356.6	98.0
9	2	5183.5	2.0
10	1	275819.1	97.7
10	2	6469.7	2.3
11	1	207447.3	97.3
11	2	5687.5	2.7
12	1	604779.1	76.2
12	2	189356.4	23.8

FIG. 6B