FIG. 1

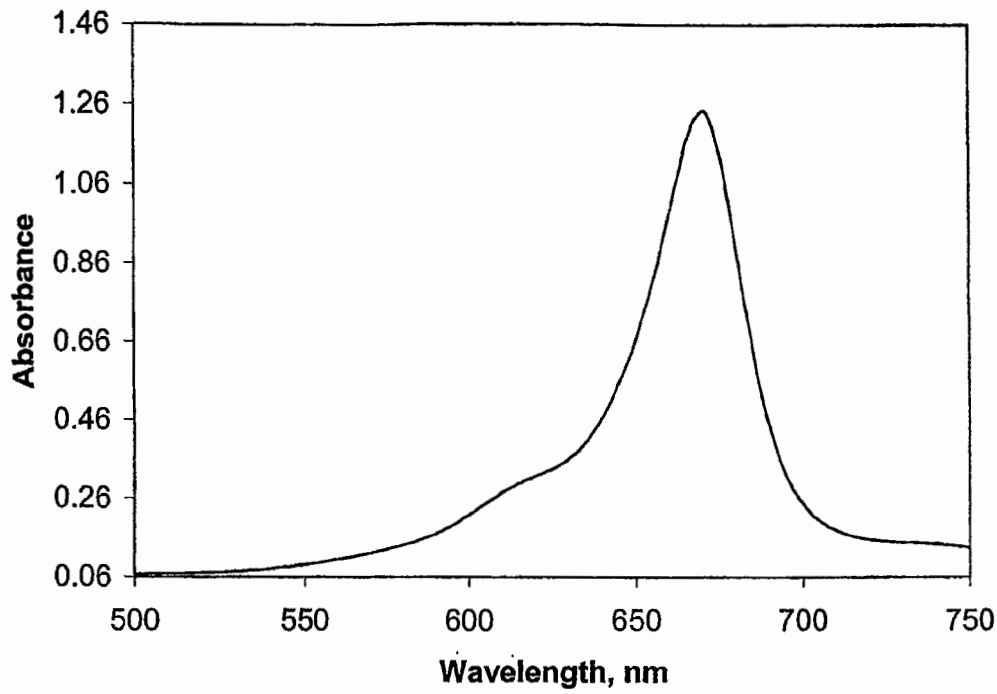

1.46
1.26
1.06
0.86
0.66
0.46
0.26
0.06
Absorbance
500
550
600
650
700
750
Wavelength, nm

FIG. 2

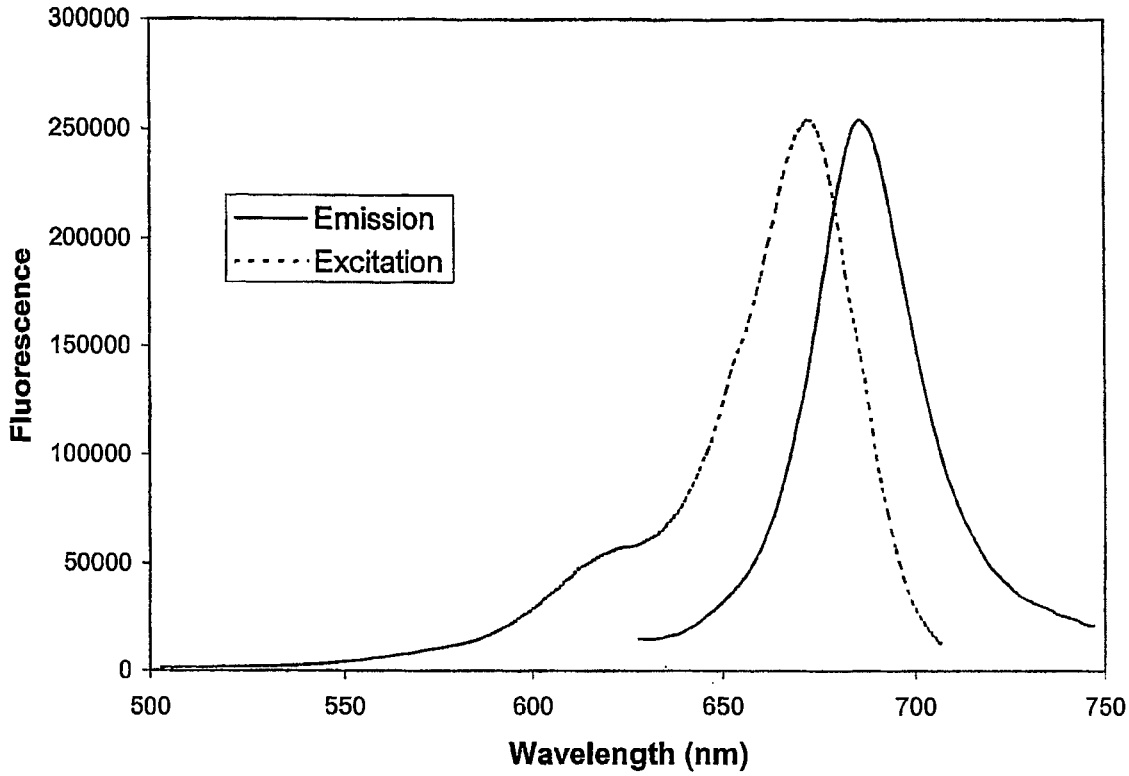

300000
250000
200000
150000
100000
50000
0
Fluorescence
Emission
Excitation
500
550
600
650
700
750
Wavelength (nm)

FIG. 3

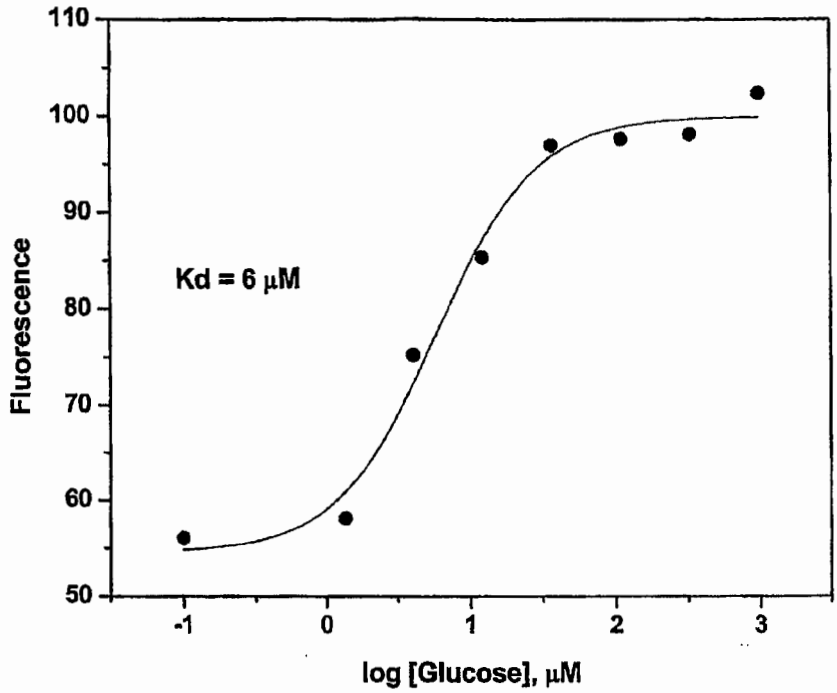

110
100
90
80
70
60
50
Fluorescence
Kd = 6 μM
-1
0
1
2
3
log [Glucose], μM

FIG. 4

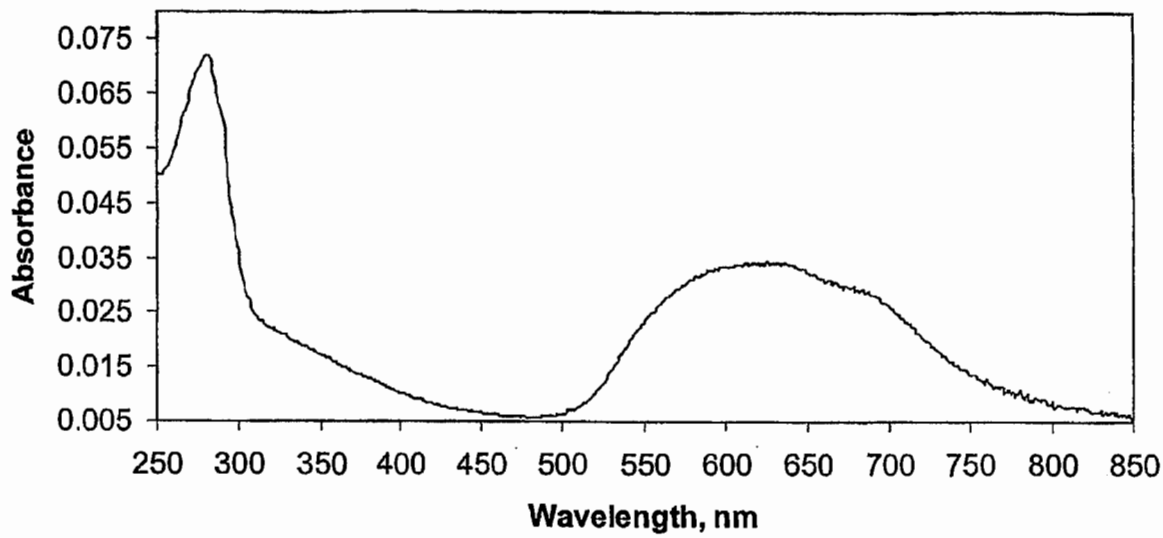

0.075
0.065
0.055
0.045
0.035
0.025
0.015
0.005
Absorbance
250 300 350 400 450 500 550 600 650 700 750 800 850
Wavelength, nm

FIG. 5

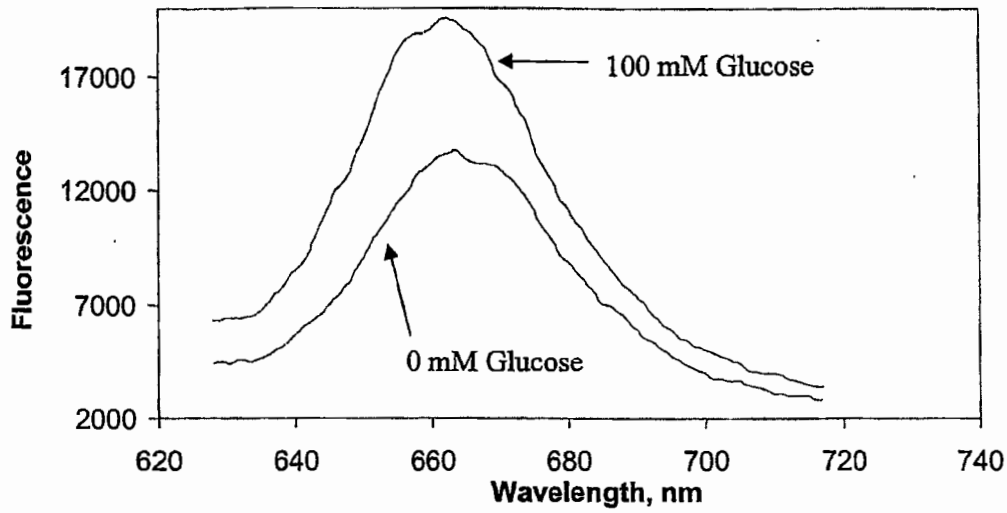

100 mM Glucose
0 mM Glucose
Fluorescence
17000
12000
7000
2000
620
640
660
680
700
720
740
Wavelength, nm

FIG 6

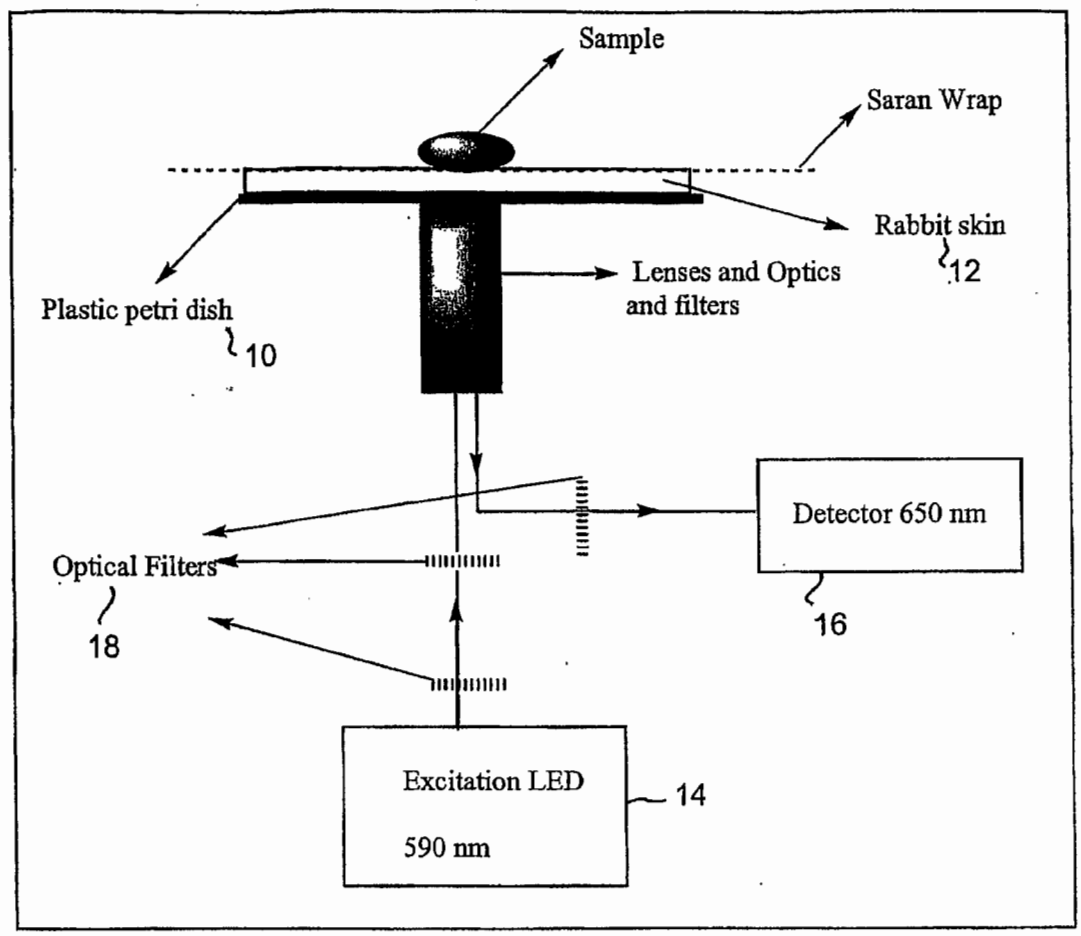
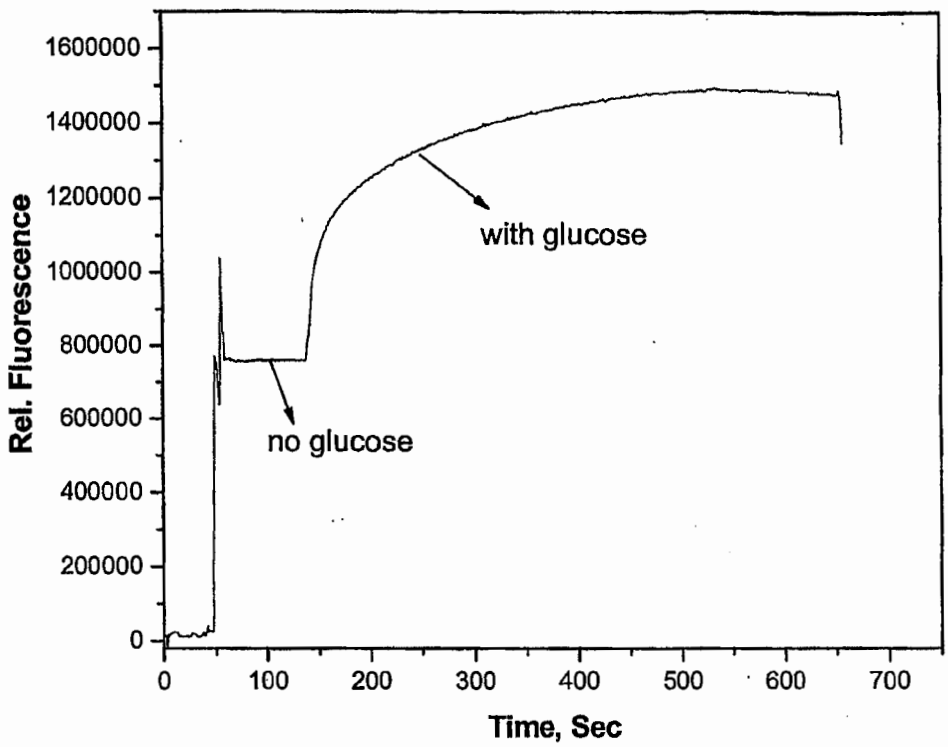

Sample
Saran Wrap
Rabbit skin
12
Lenses and Optics
and filters
Plastic petri dish
10
Detector 650 nm
Optical Filters
18
16
Excitation LED
590 nm
14

FIG 7


1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Rel. Fluorescence
0
100
200
300
400
500
600
700
Time, Sec
with glucose
no glucose