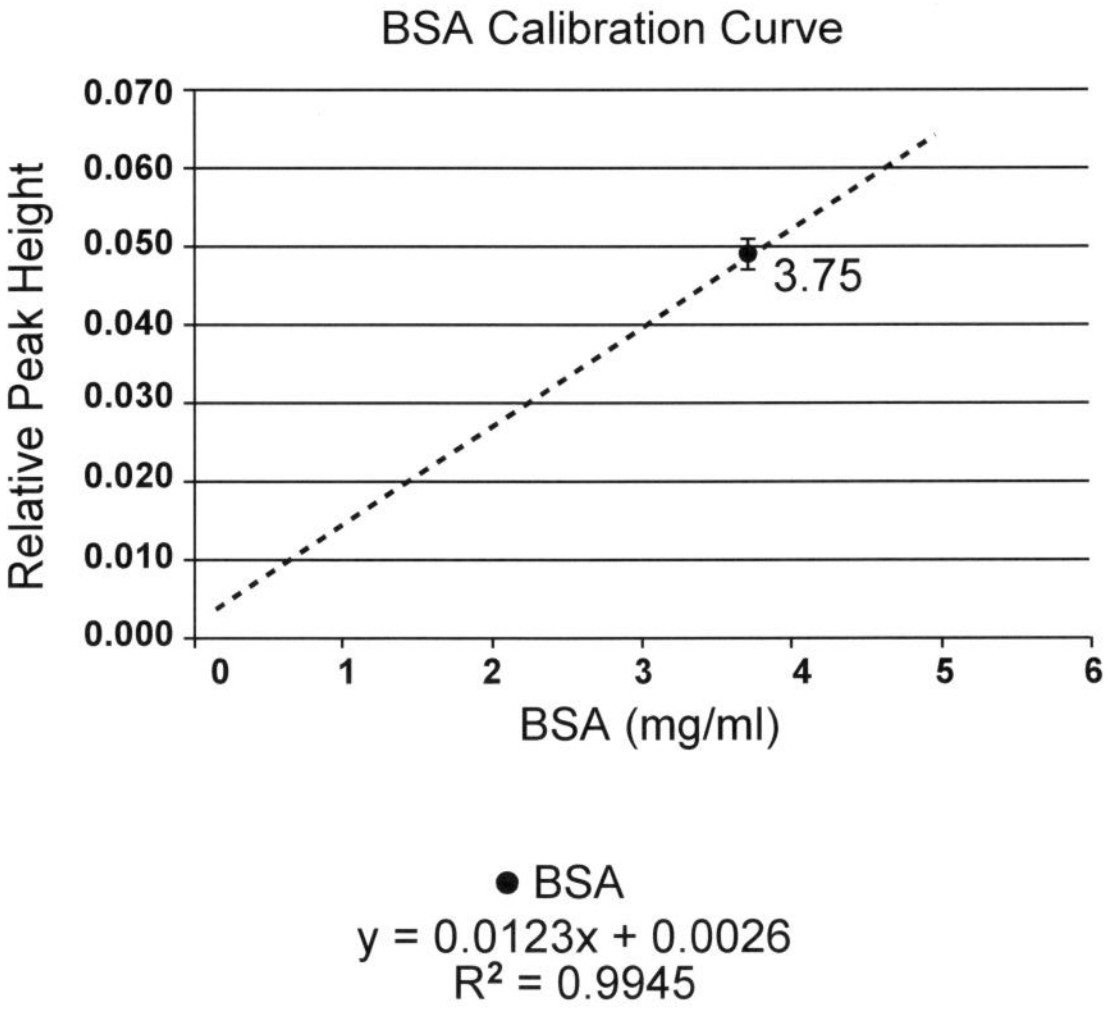

BSA Calibration Curve
Relative Peak Height
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0
1
2
3
4
5
6
3.75
BSA (mg/ml)
● BSA
y = 0.0123x + 0.0026
R² = 0.9945

Figure 1

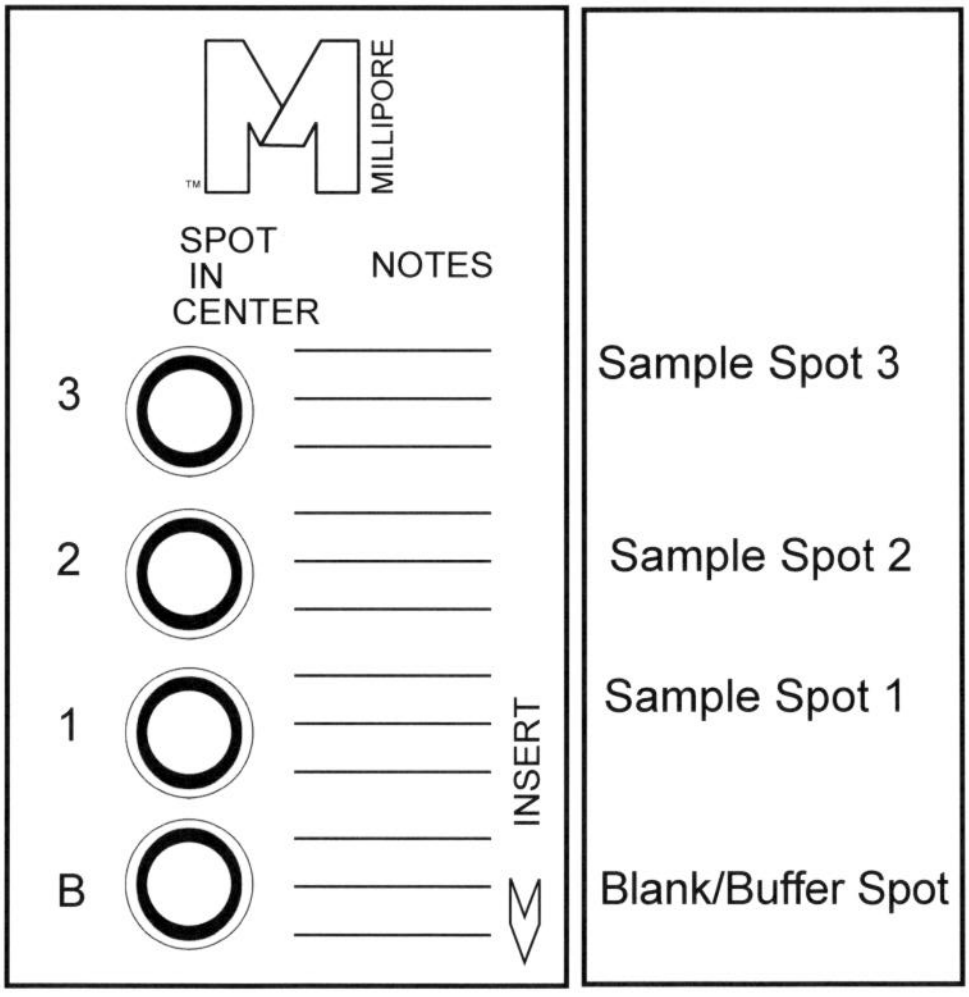

MILLIPORE
SPOT IN CENTER
NOTES
3
2
1
B
INSERT
Sample Spot 3
Sample Spot 2
Sample Spot 1
Blank/Buffer Spot

Figure 2

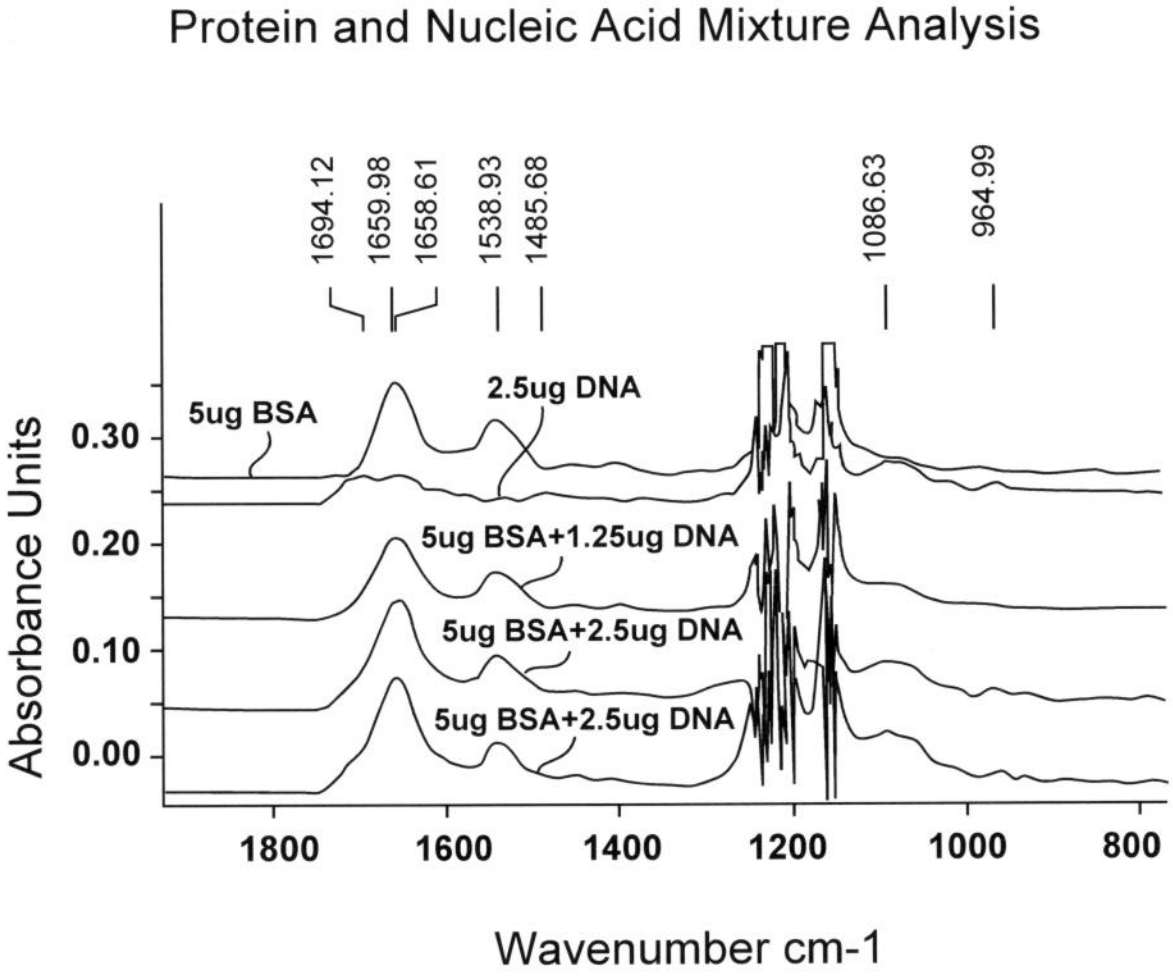

Protein and Nucleic Acid Mixture Analysis
1694.12
1659.98
1658.61
1538.93
1485.68
1086.63
964.99
5ug BSA
2.5ug DNA
5ug BSA+1.25ug DNA
5ug BSA+2.5ug DNA
5ug BSA+2.5ug DNA
Absorbance Units
0.30
0.20
0.10
0.00
1800
1600
1400
1200
1000
800
Wavenumber cm-1

Figure 3

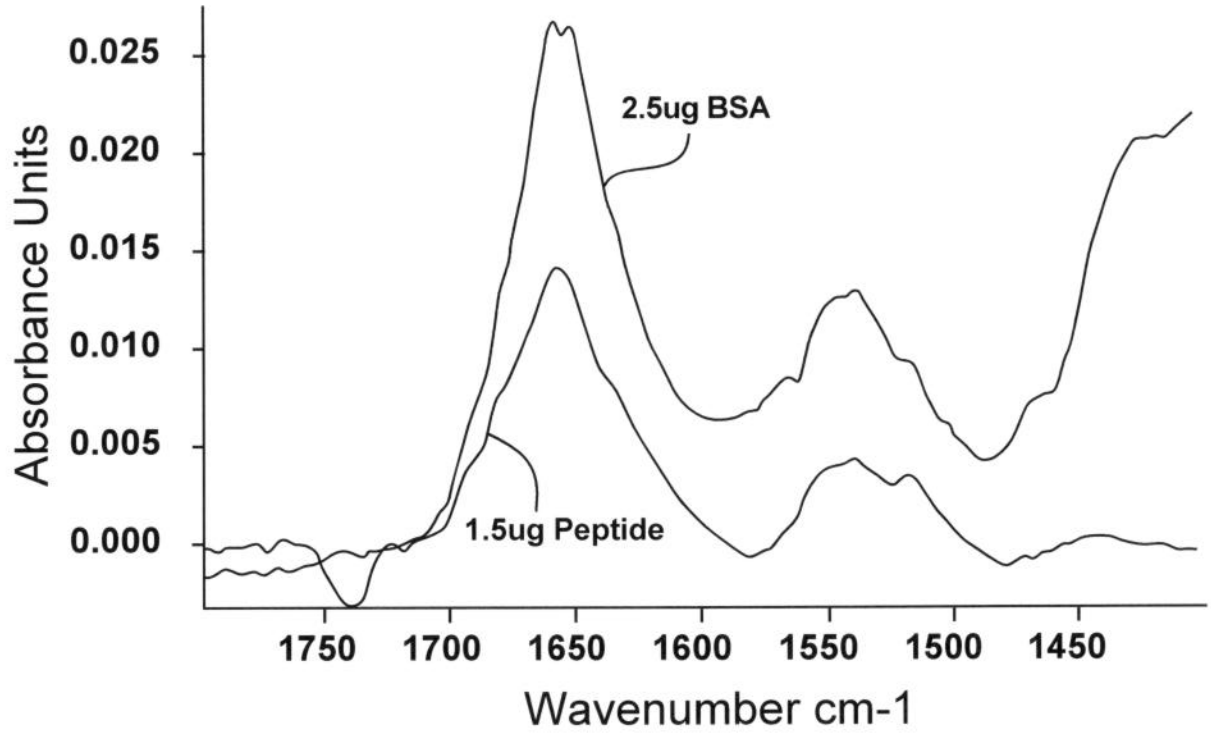

0.025
0.020
0.015
0.010
0.005
0.000
Absorbance Units
2.5ug BSA
1.5ug Peptide
1750
1700
1650
1600
1550
1500
1450
Wavenumber cm-1

Figure 4

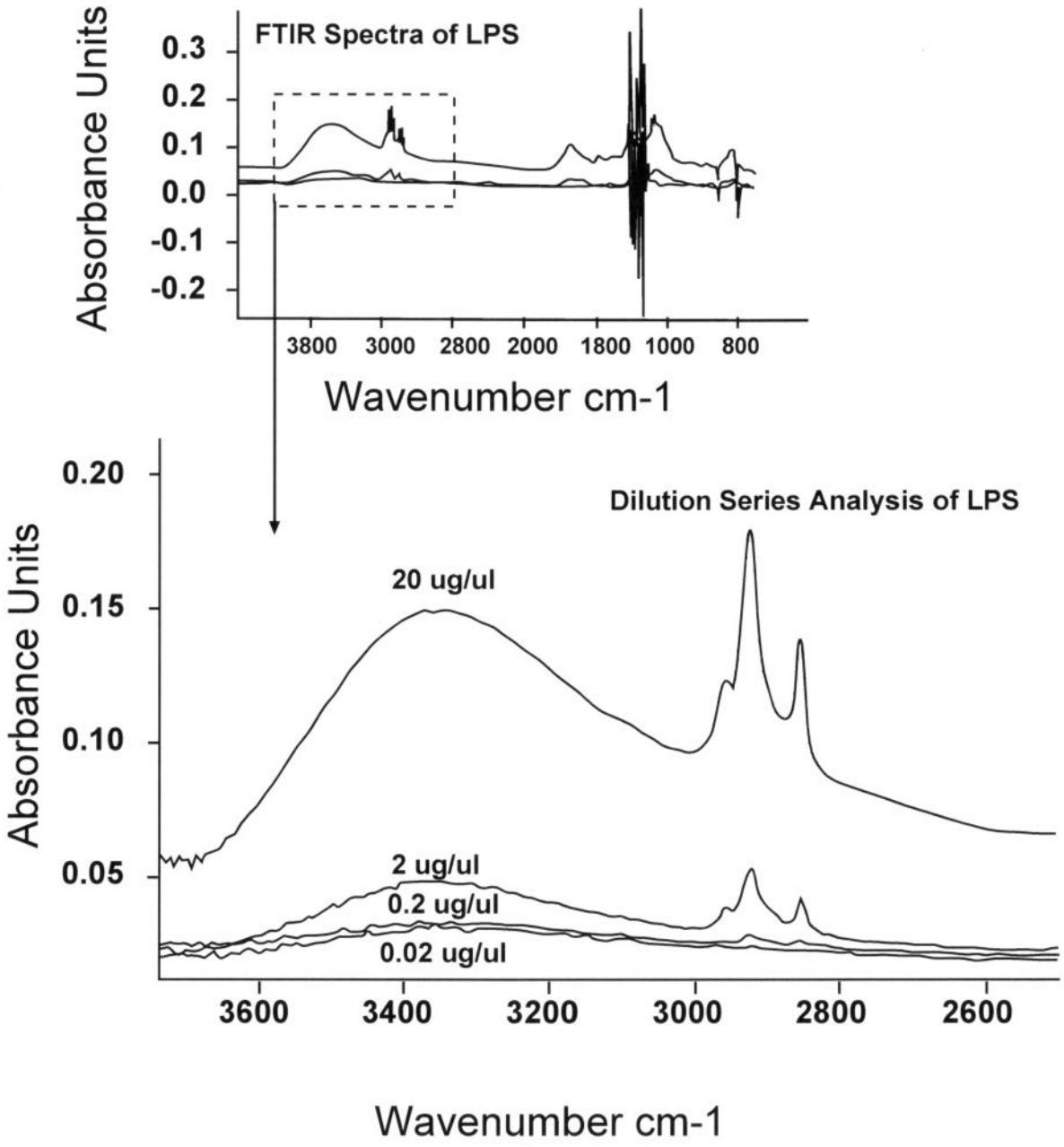

FTIR Spectra of LPS
Absorbance Units
0.3
0.2
0.1
0.0
-0.1
-0.2
3800
3000
2800
2000
1800
1000
800
Wavenumber cm-1
Dilution Series Analysis of LPS
20 ug/ul
2 ug/ul
0.2 ug/ul
0.02 ug/ul
Absorbance Units
0.20
0.15
0.10
0.05
3600
3400
3200
3000
2800
2600
Wavenumber cm-1

Figure 5

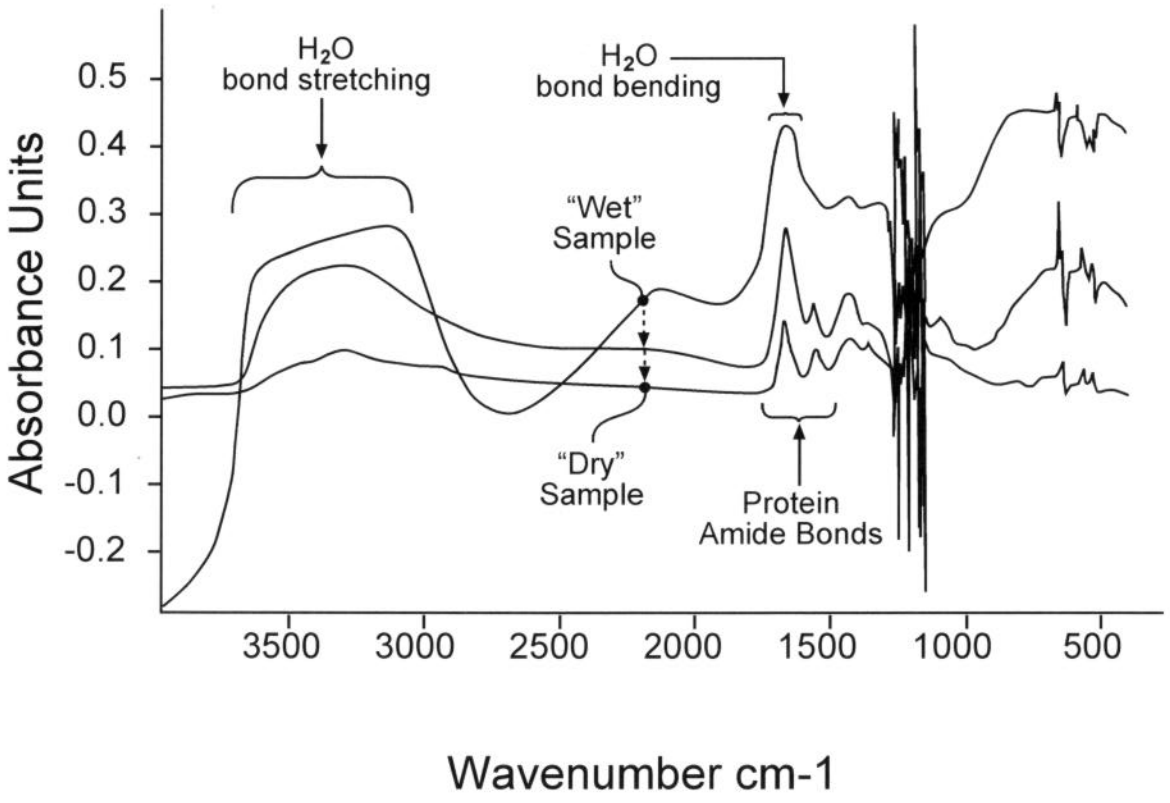

H2O
bond stretching
H2O
bond bending
"Wet"
Sample
"Dry"
Sample
Protein
Amide Bonds
Absorbance Units
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
3500
3000
2500
2000
1500
1000
500
Wavenumber cm-1

Figure 6

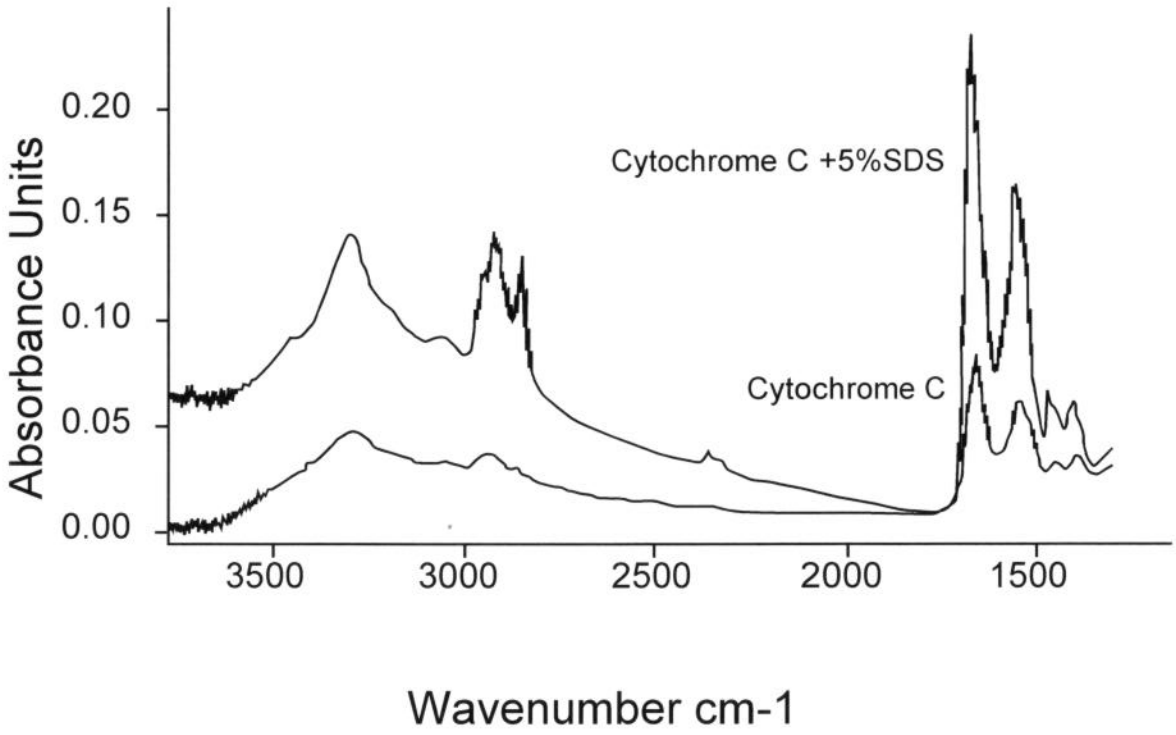

Absorbance Units
0.20
0.15
0.10
0.05
0.00
Cytochrome C +5%SDS
Cytochrome C
3500
3000
2500
2000
1500
Wavenumber cm-1

Figure 7

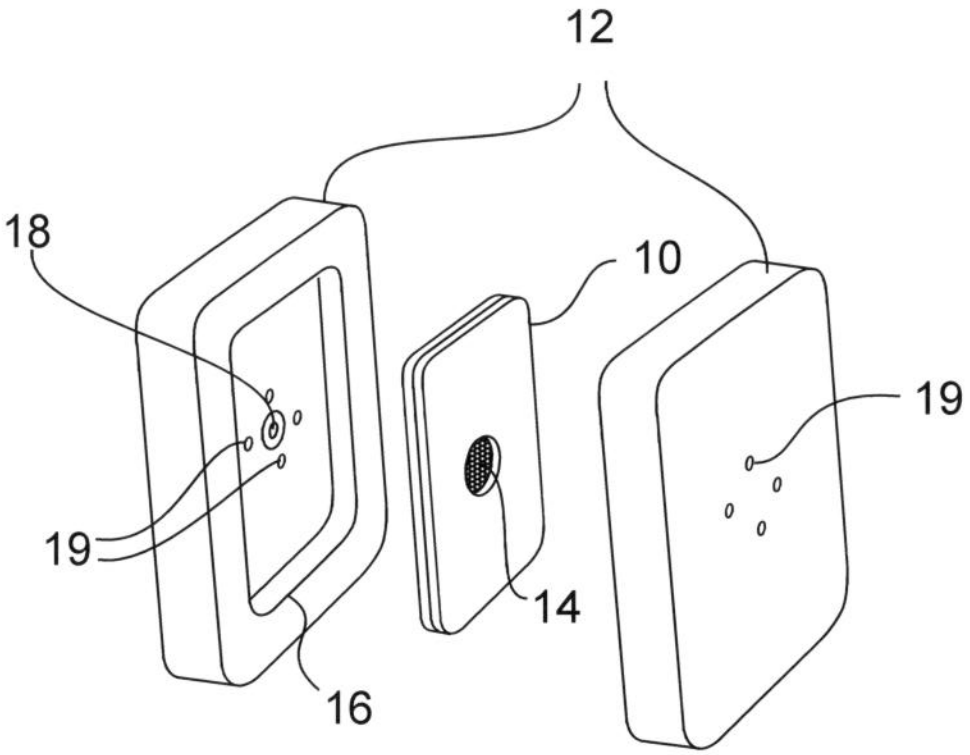


Figure 8A

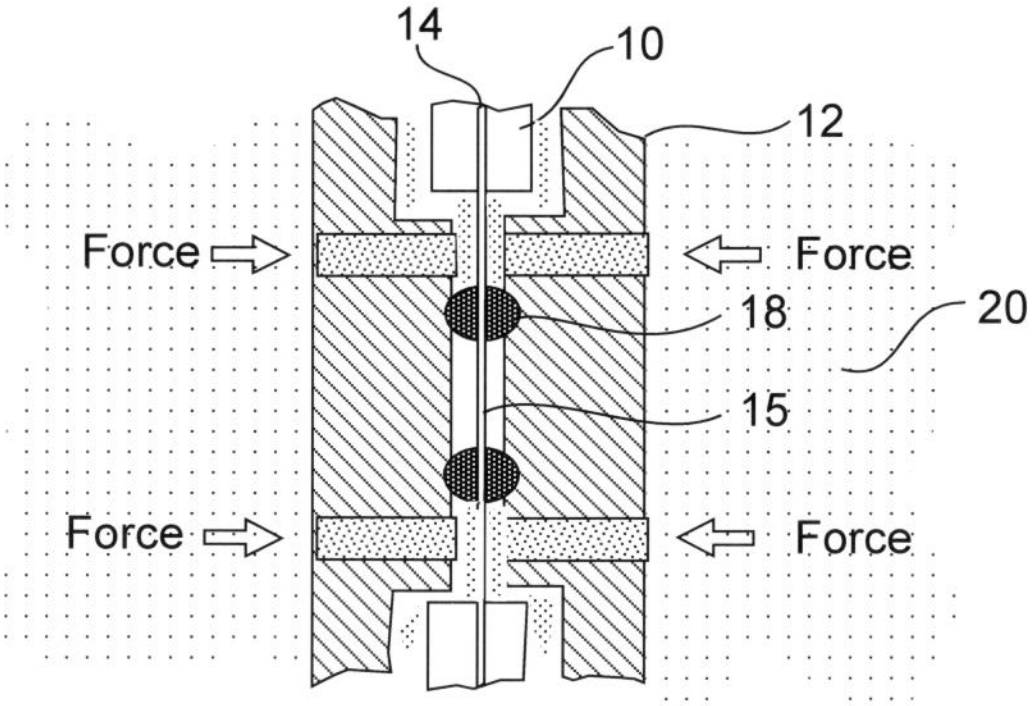


Figure 8B

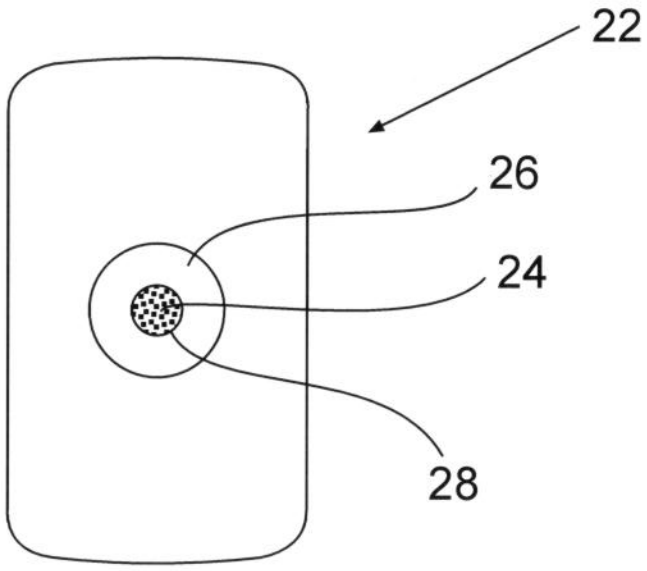


Figure 9

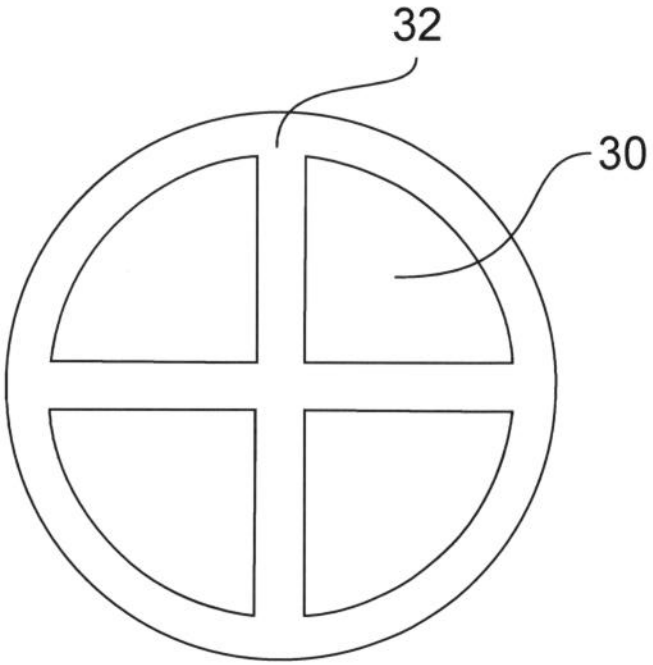


Figure 10A

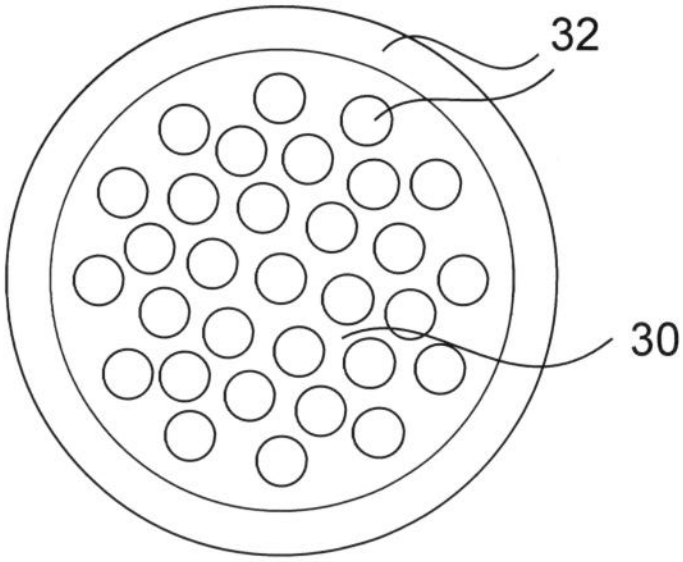


Figure 10B

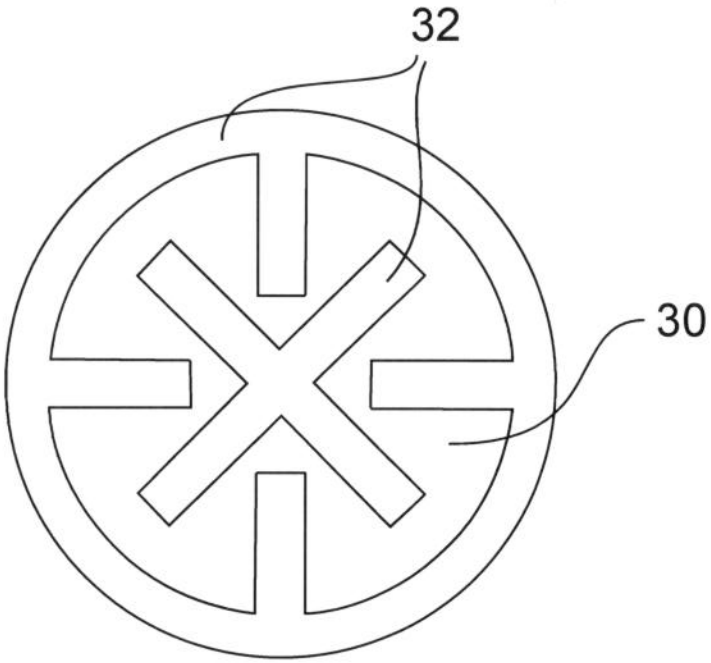


Figure 10C

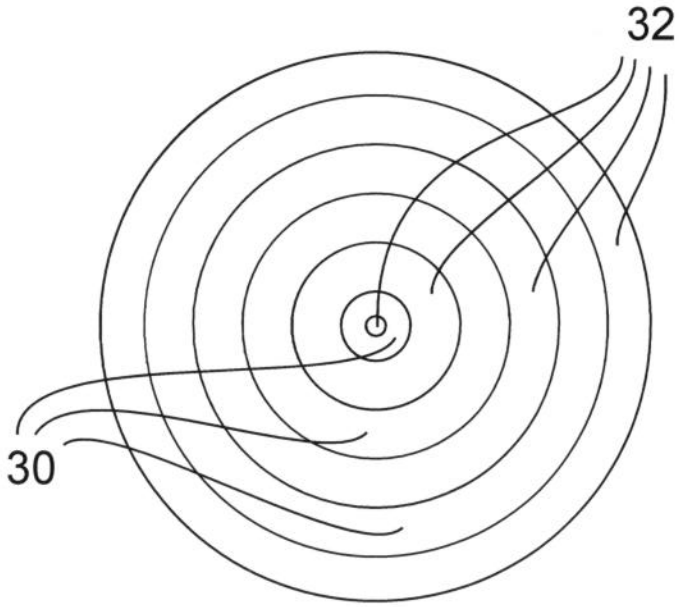


Figure 10D

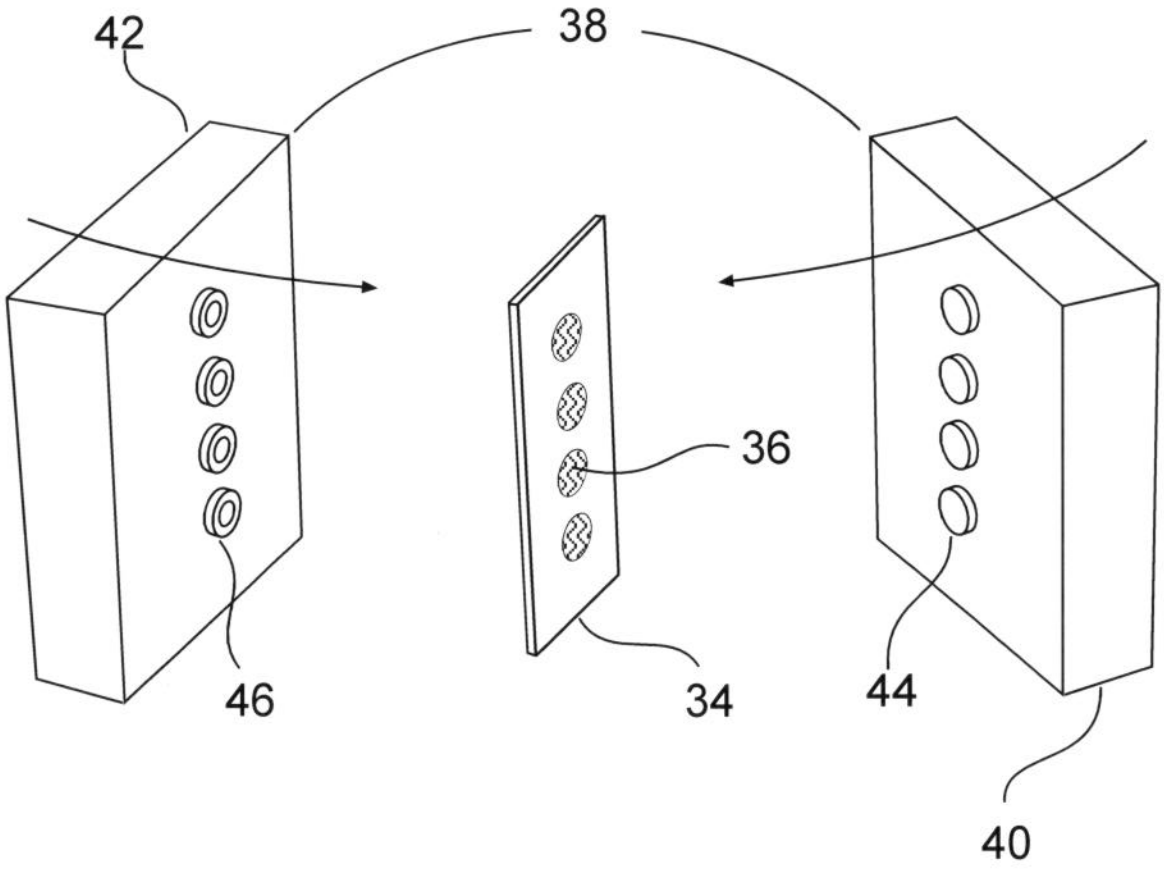


Figure 11

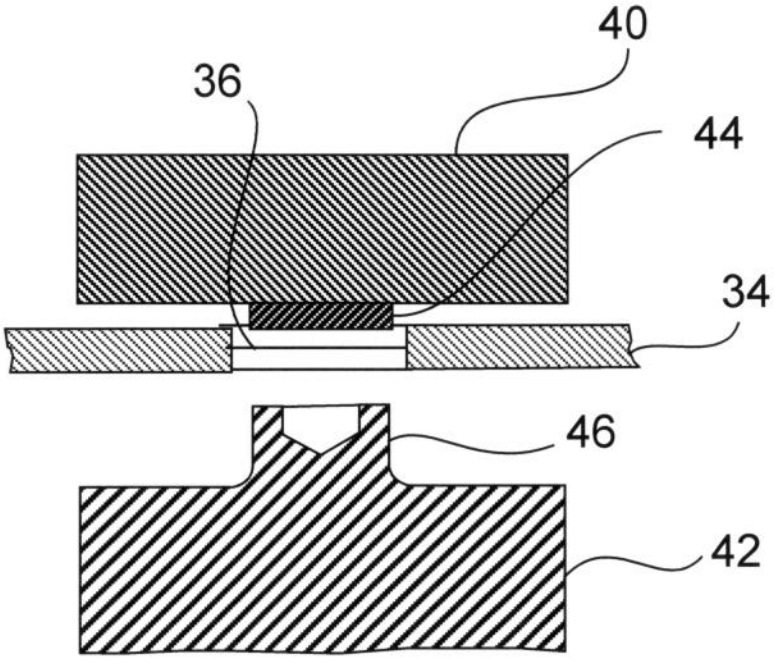


Figure 12A

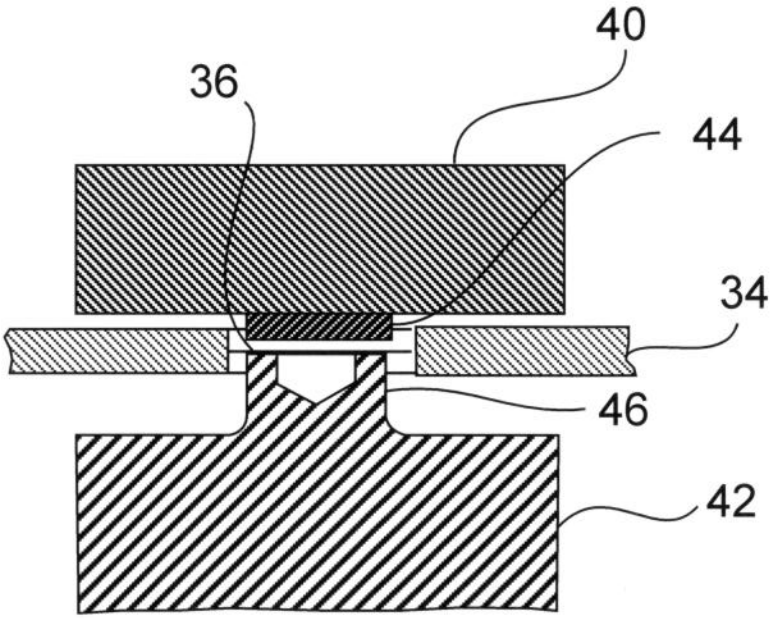


Figure 12B

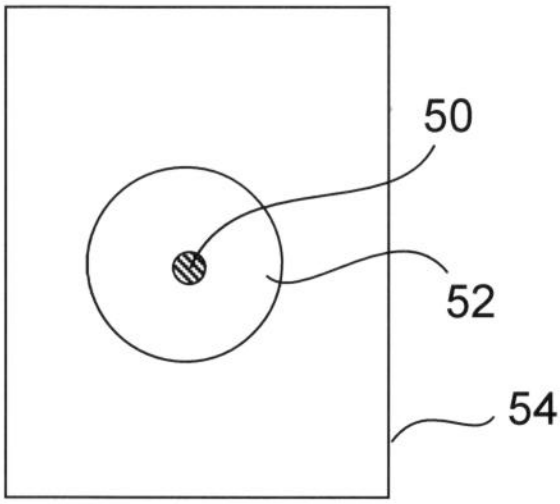


Figure 13A

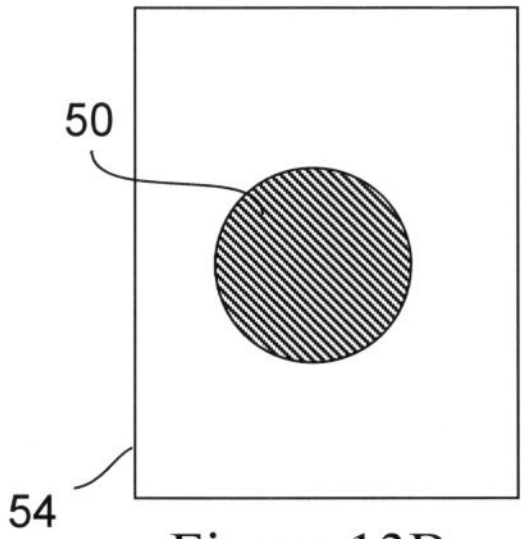


Figure 13B

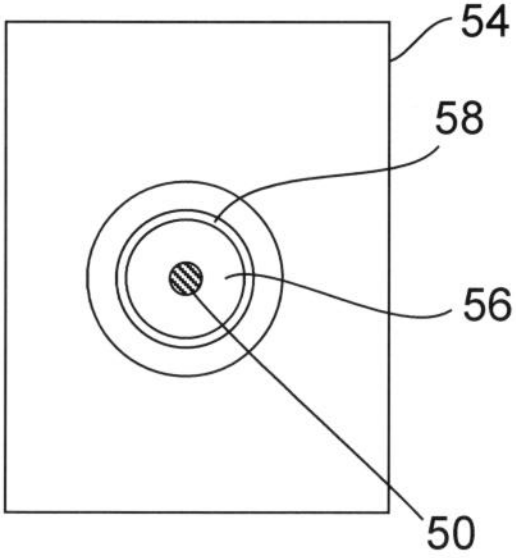


Figure 13C

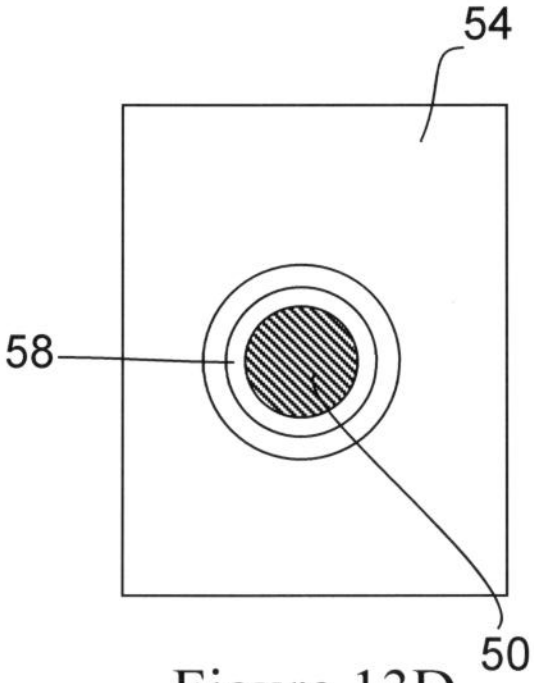


Figure 13D

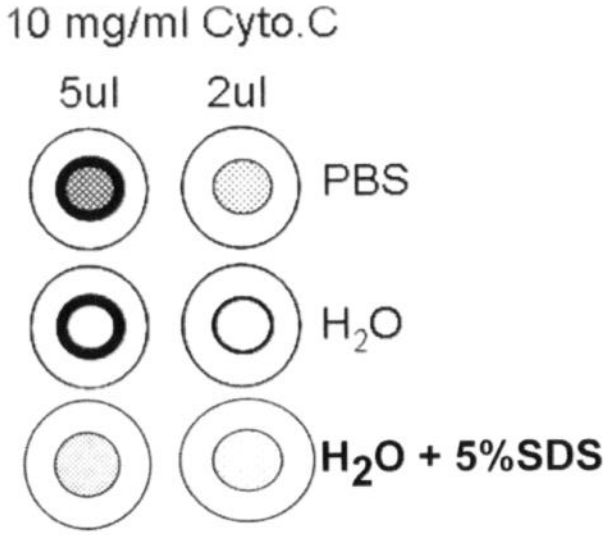


Figure 14A

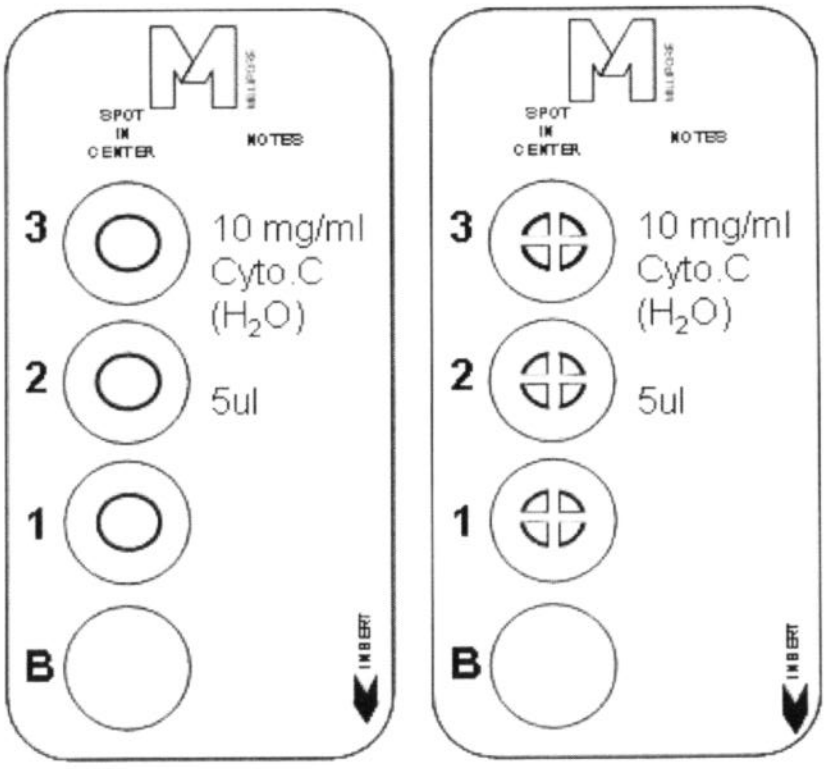


Figure 14B

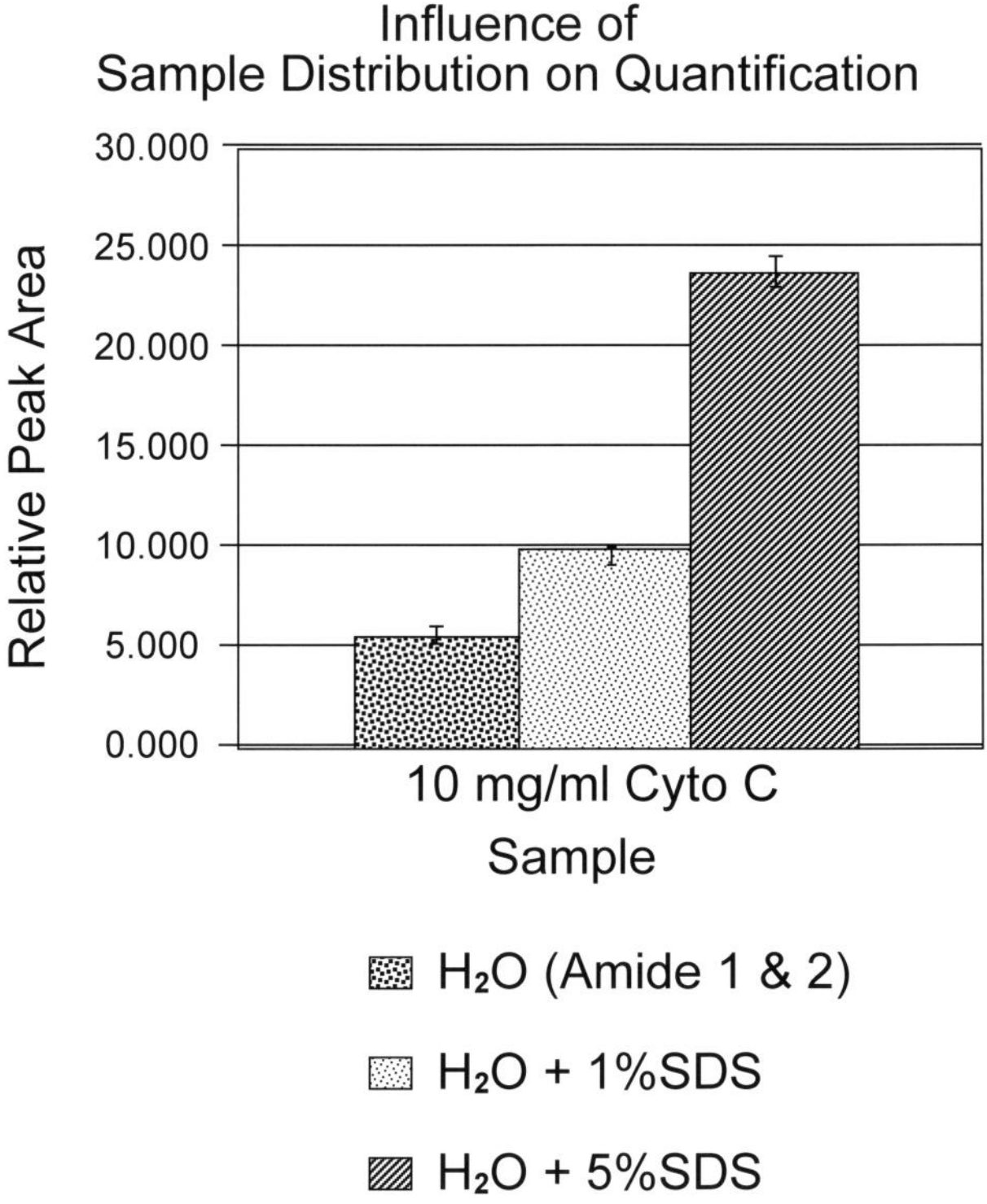

Influence of
Sample Distribution on Quantification
Relative Peak Area
30.000
25.000
20.000
15.000
10.000
5.000
0.000
10 mg/ml Cyto C
Sample
H2O (Amide 1 & 2)
H2O + 1%SDS
H2O + 5%SDS

Figure 15