

FIGURE 1

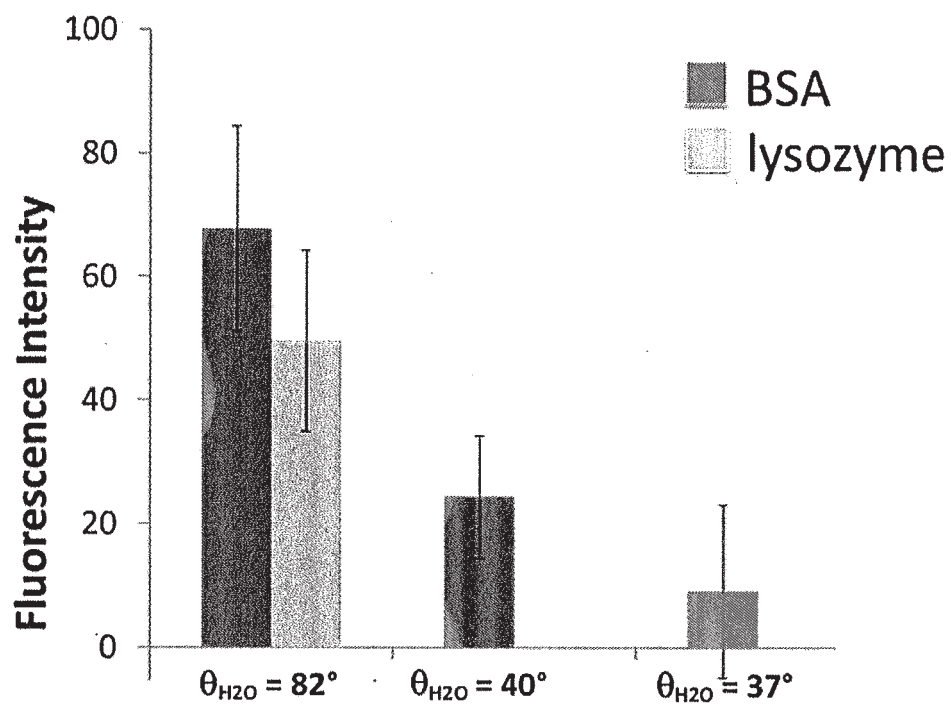


FIGURE 2

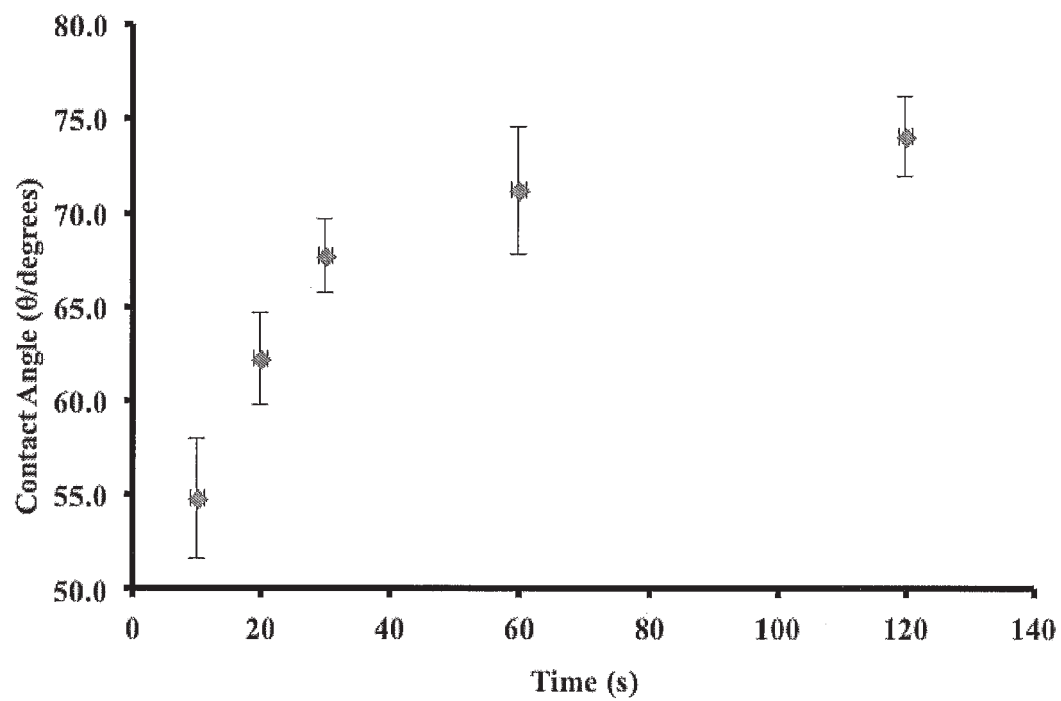
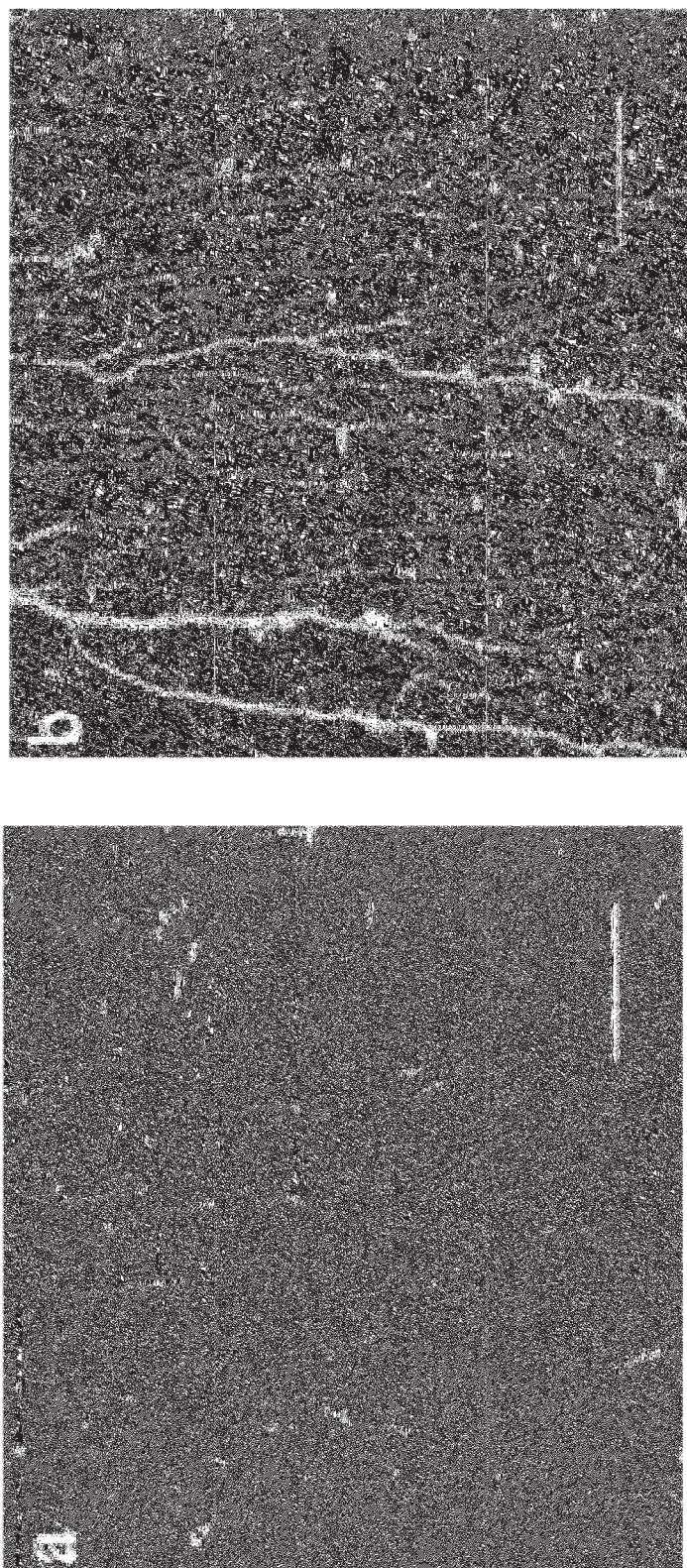
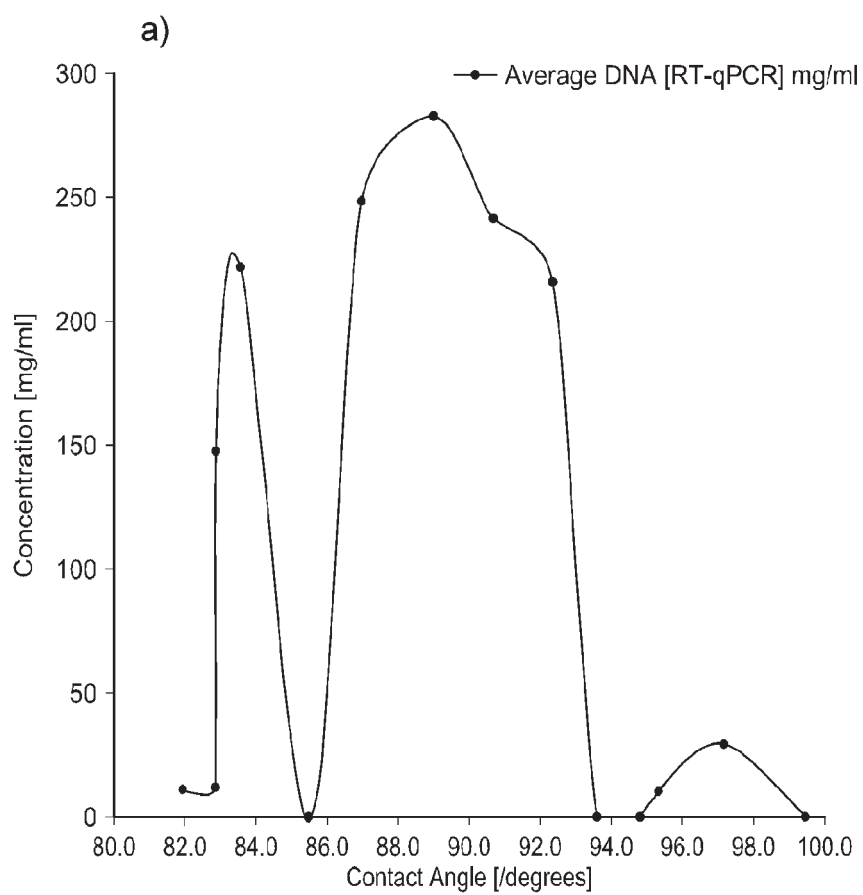
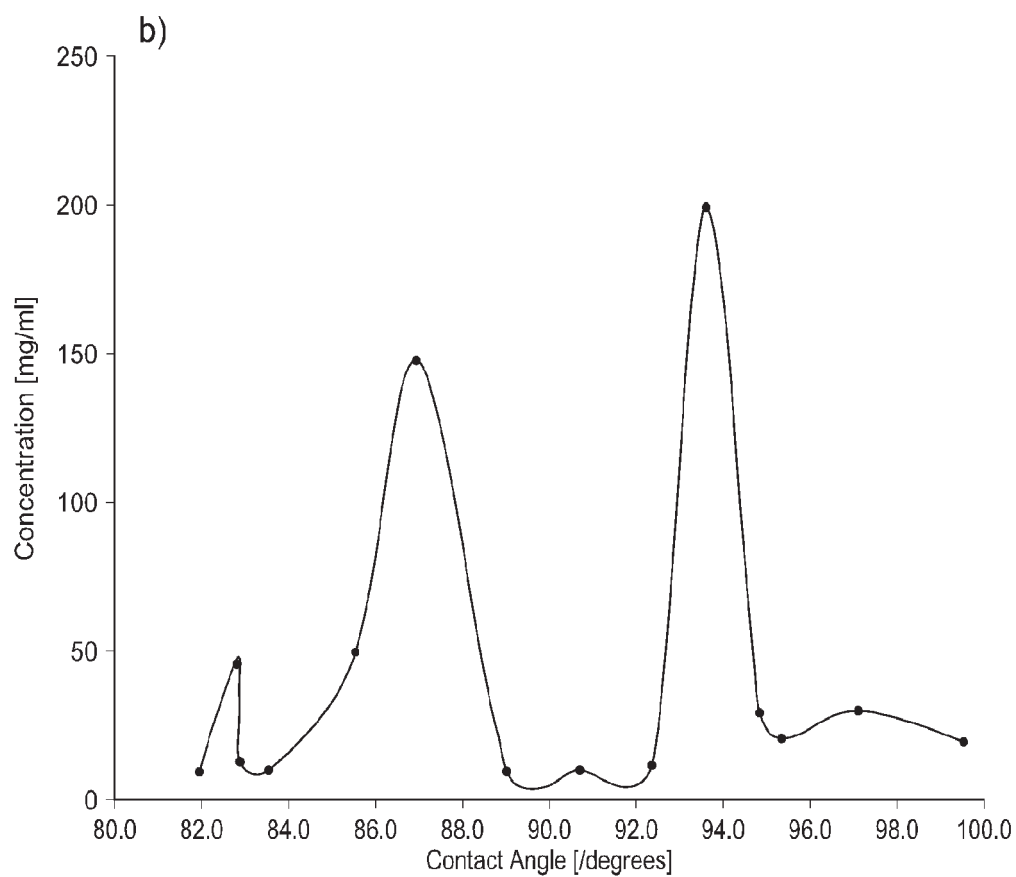


FIGURE 3



*FIG. 4*

*FIG. 4*

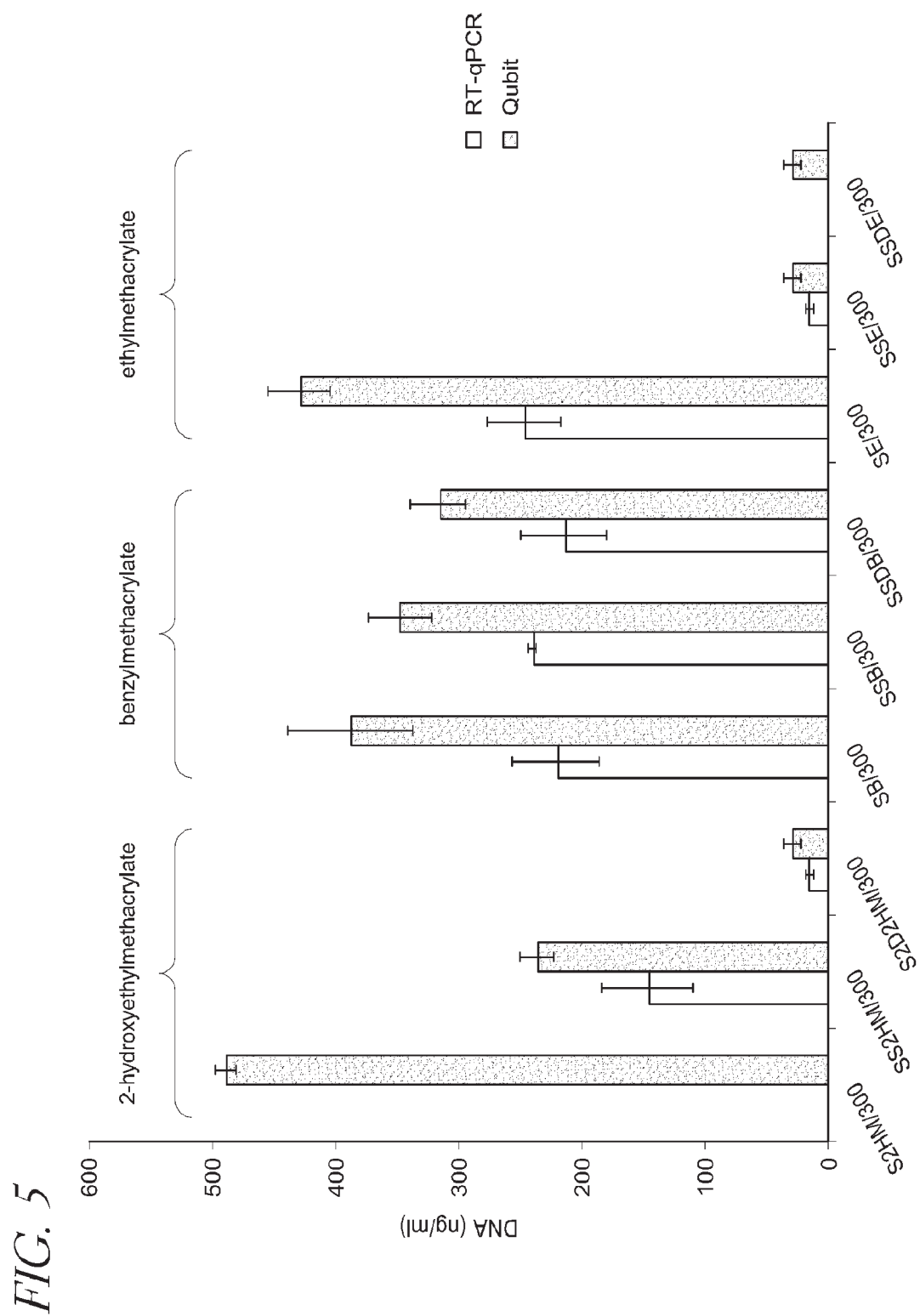


FIGURE 6

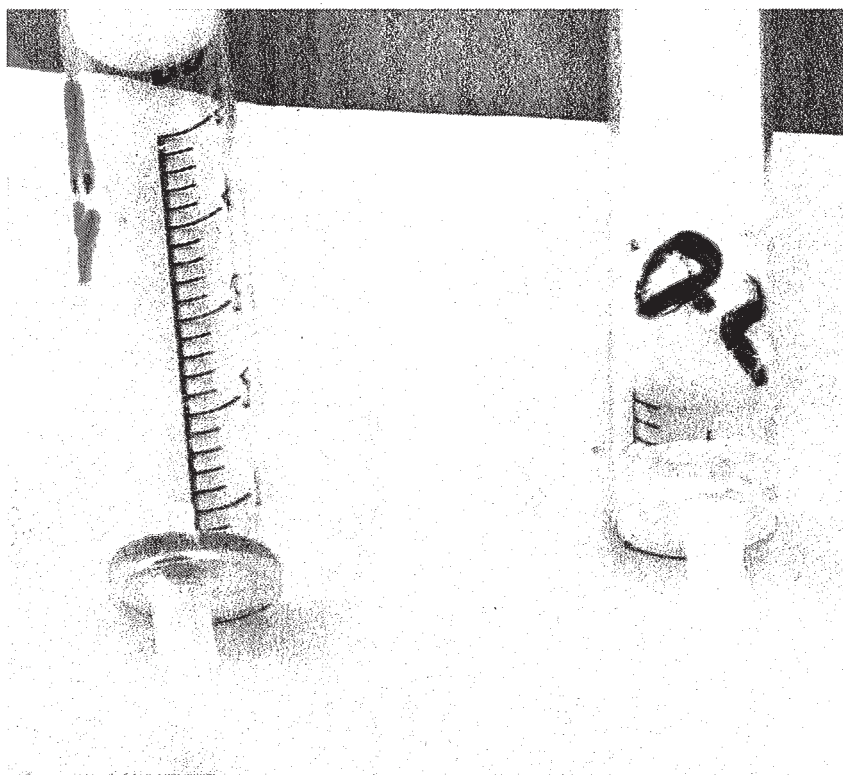


FIGURE 7

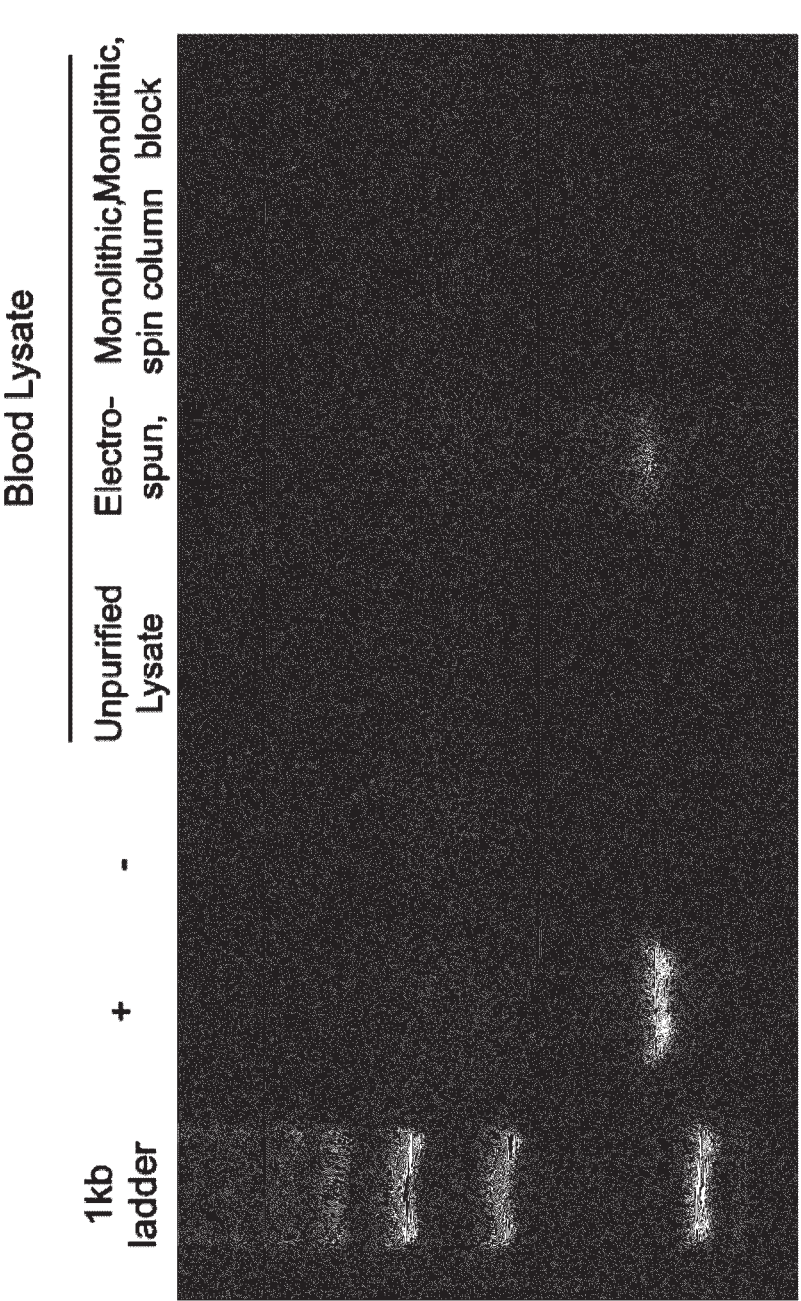


FIGURE 8

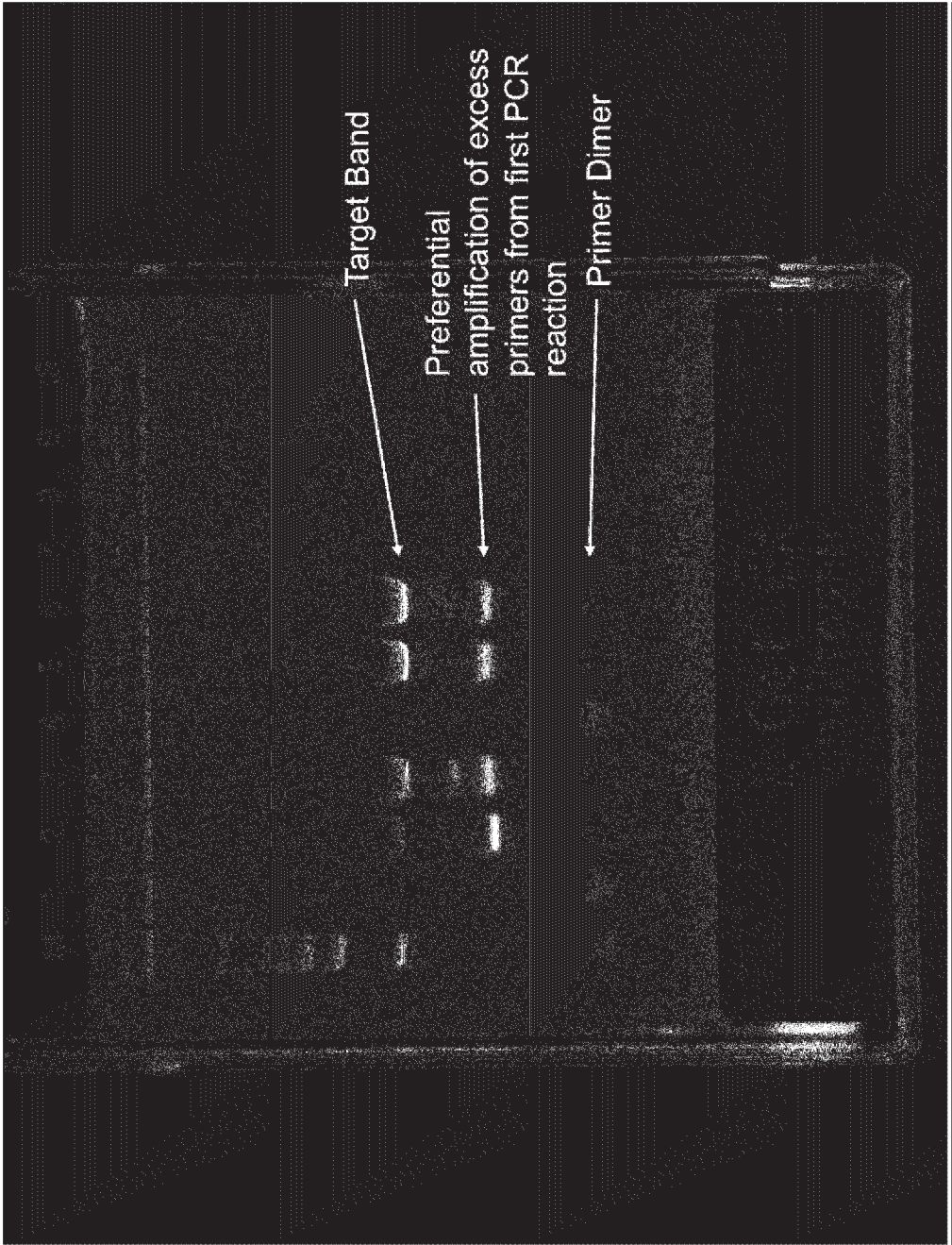
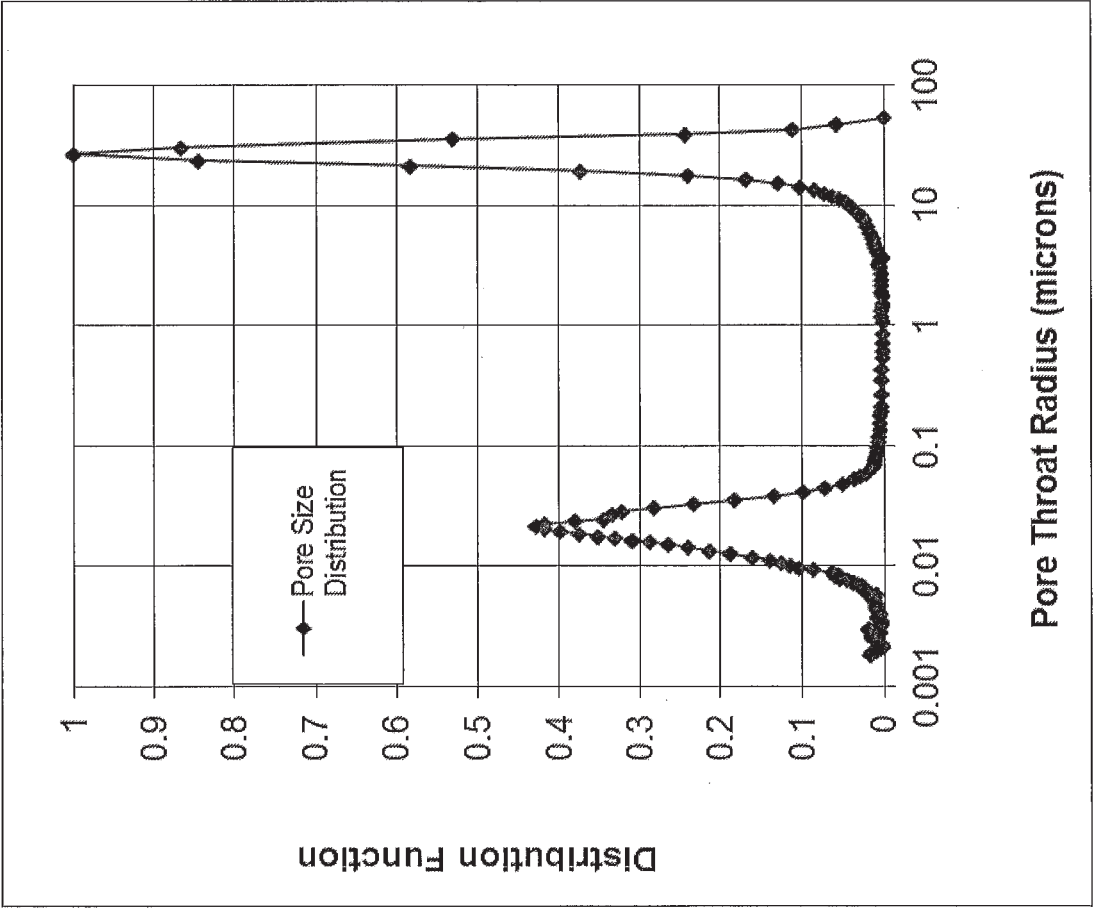


FIGURE 9



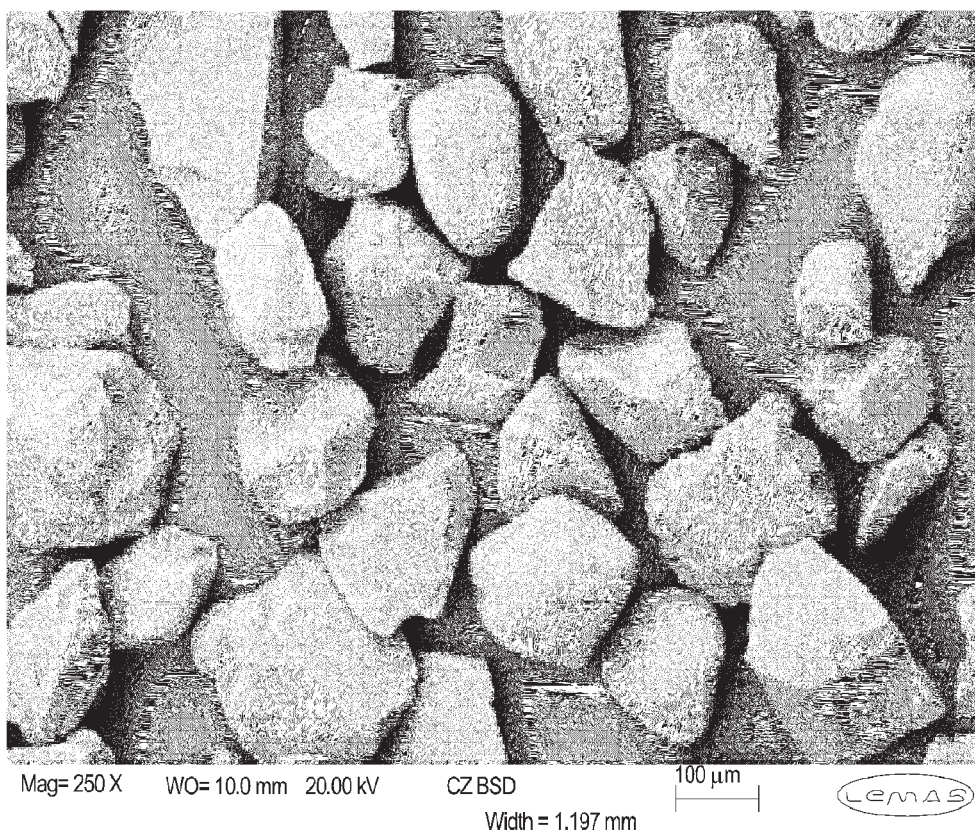
*FIG. 10*

FIGURE 11

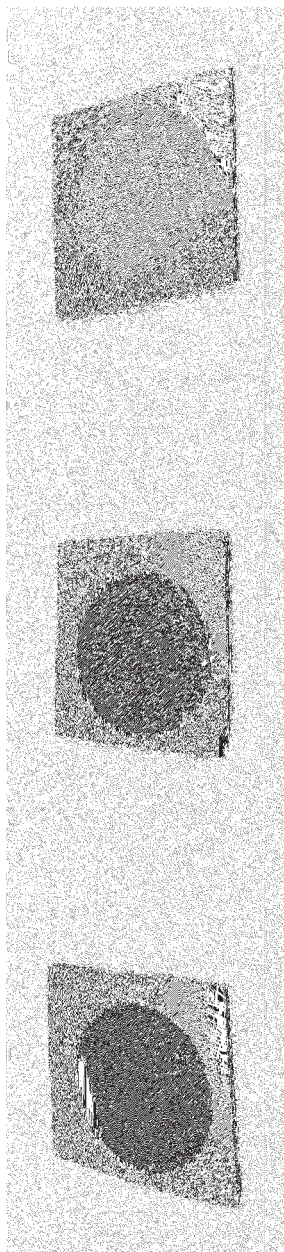
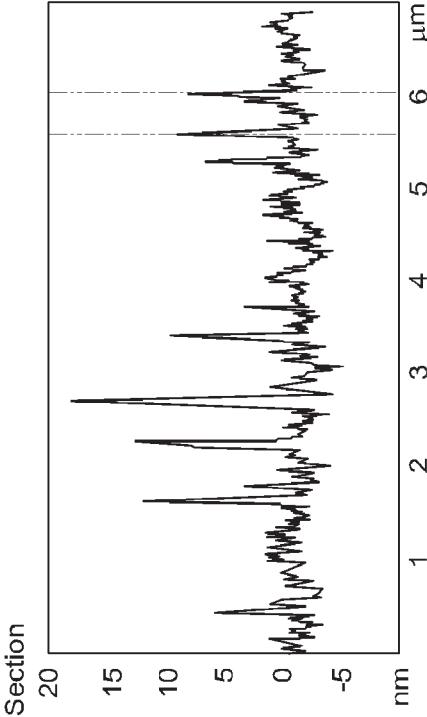
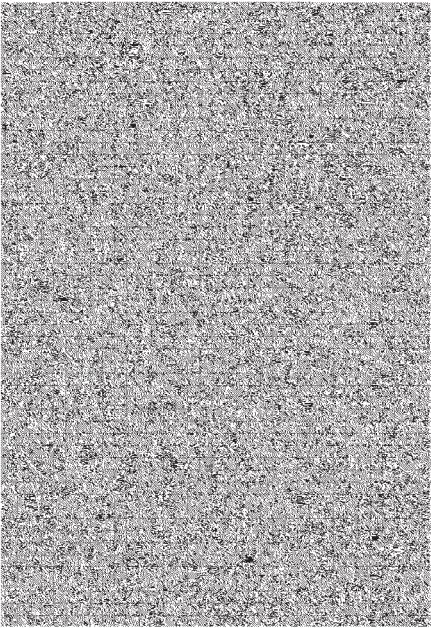
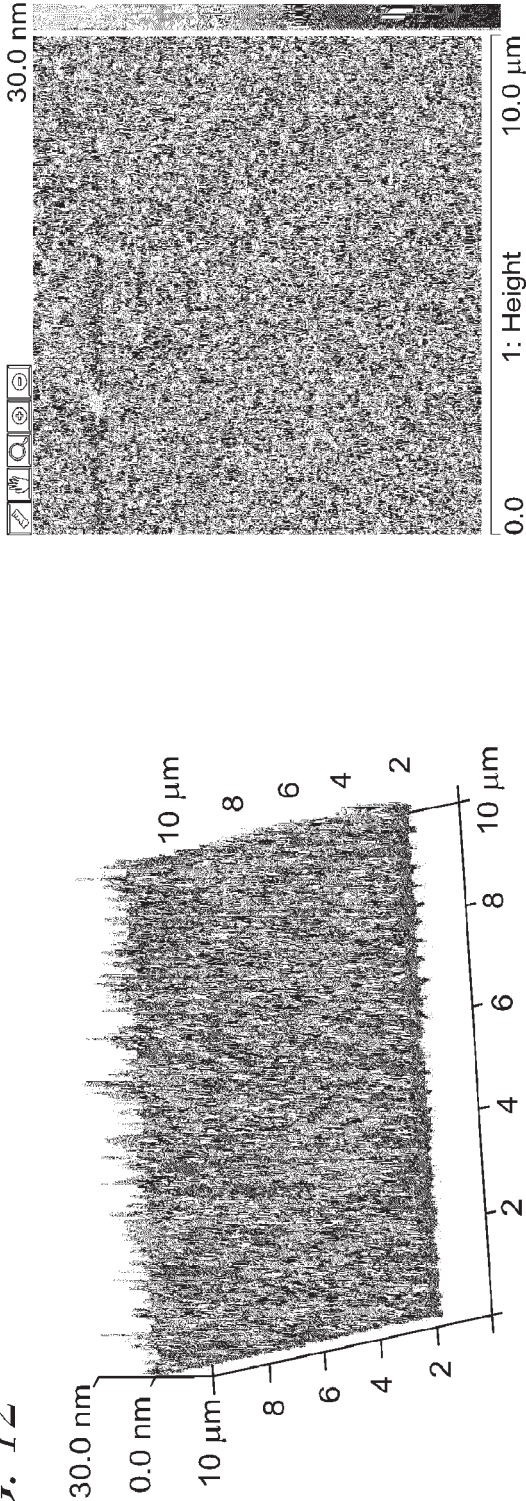


FIG. 12



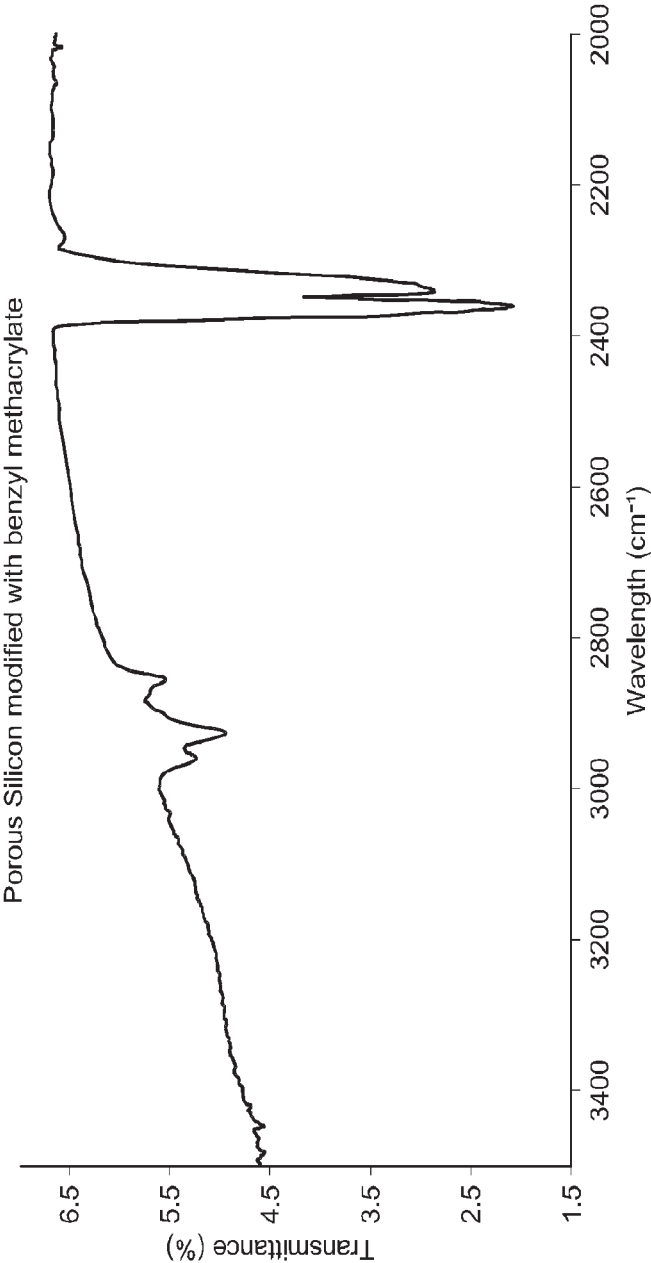


FIG. 13

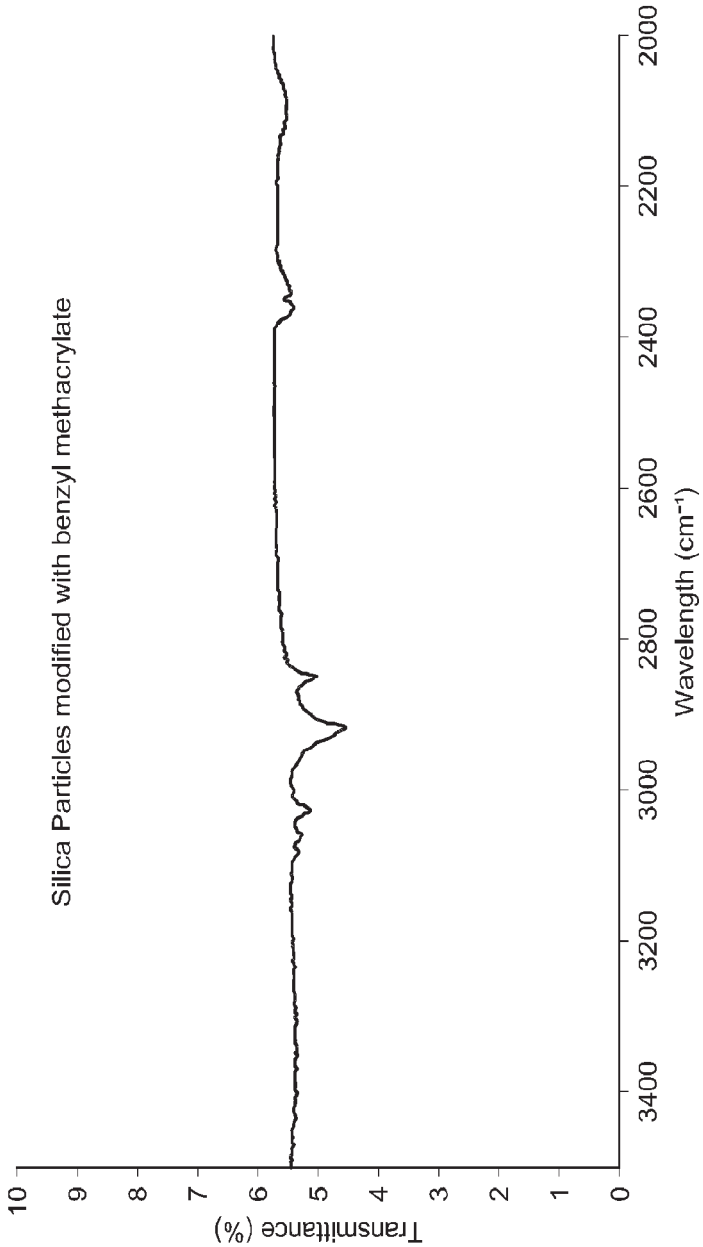


FIG. 14

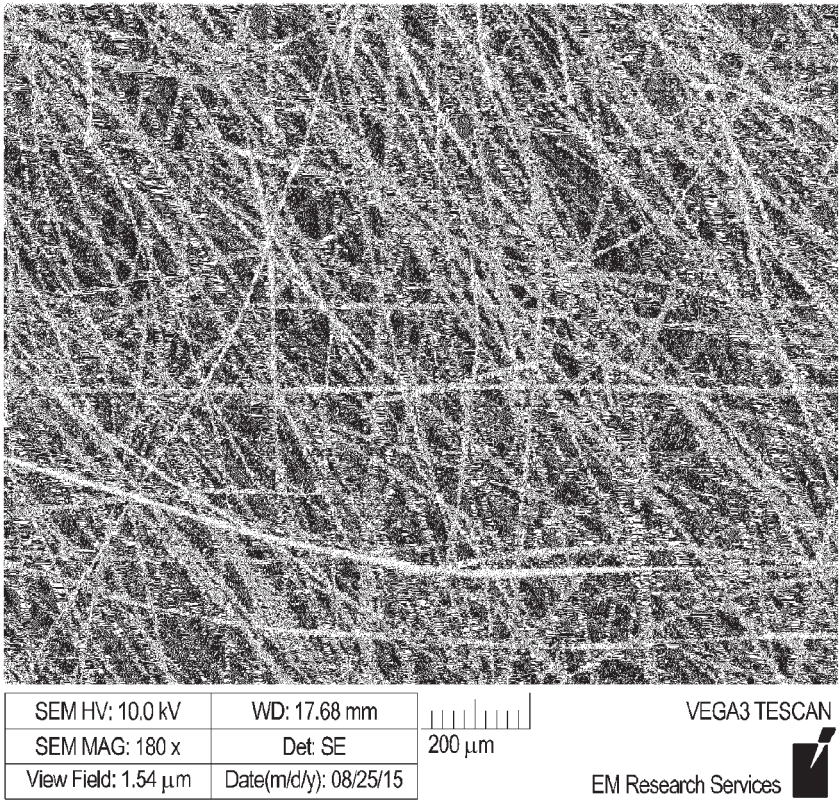
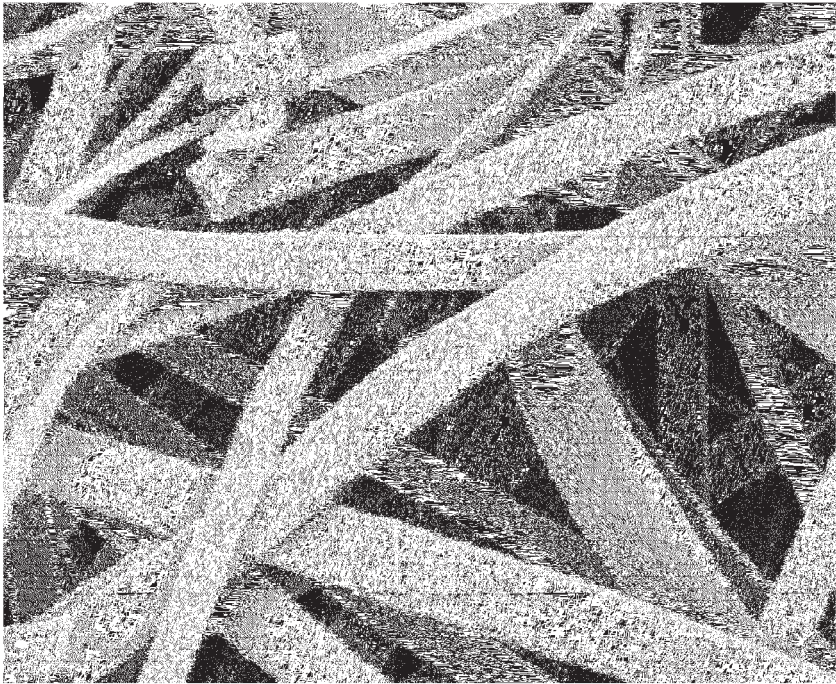


FIG. 15 (left)



SEM HV: 10.0 kV	WD: 18.20 mm	 20 μ m	VEGA3 TESCAN
SEM MAG: 2.01 kx	Det: SE		
View Field: 138 μ m	Date(m/d/y): 08/25/15		

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FIG. 15 (right)

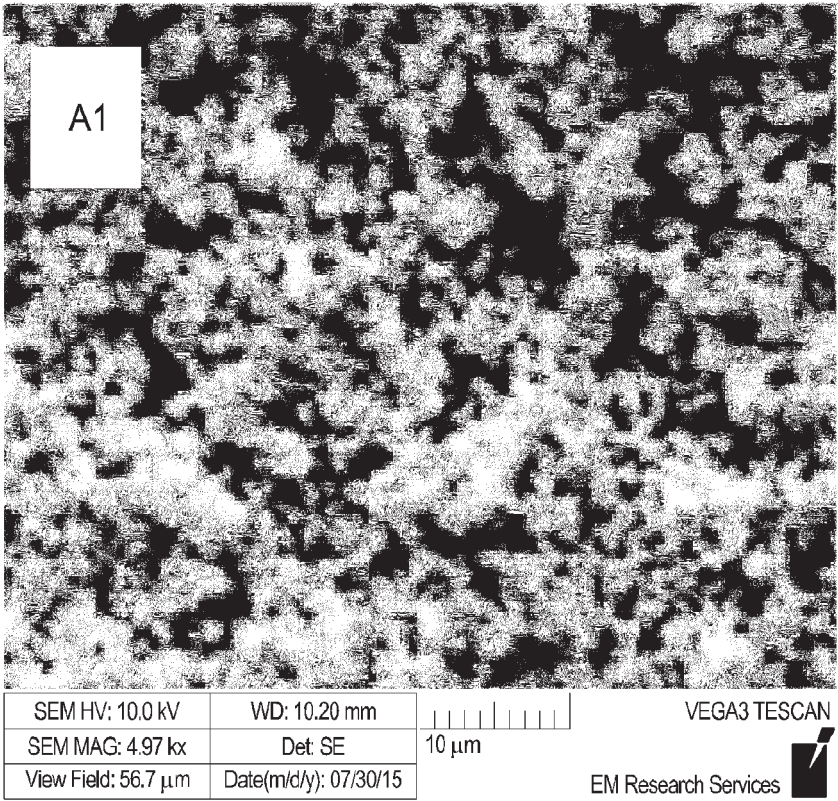


FIG. 16 (left)

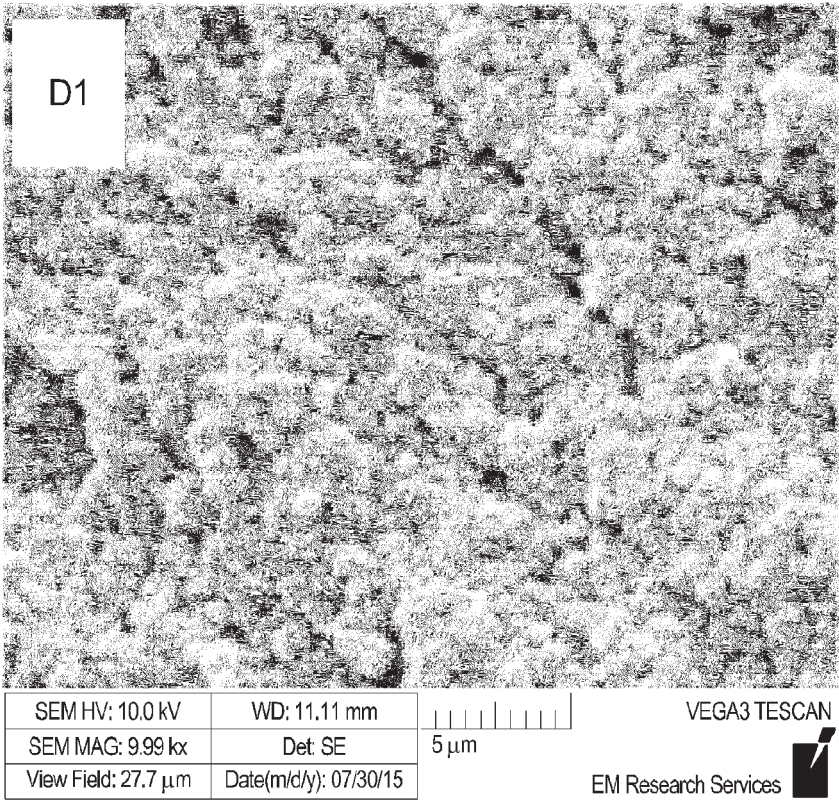


FIG. 16 (right)

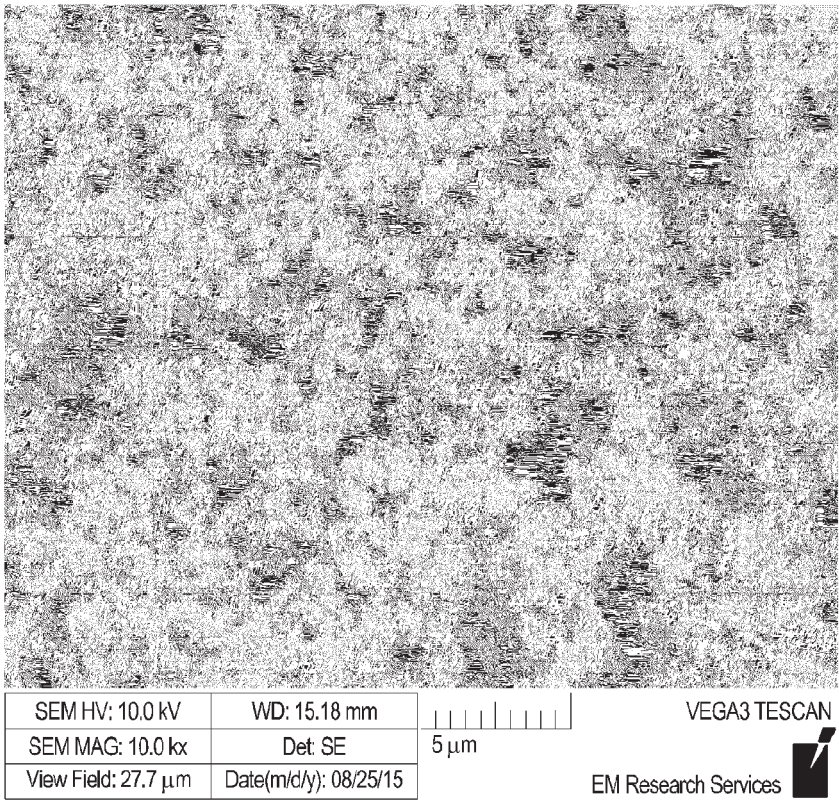


FIG. 17 (left)

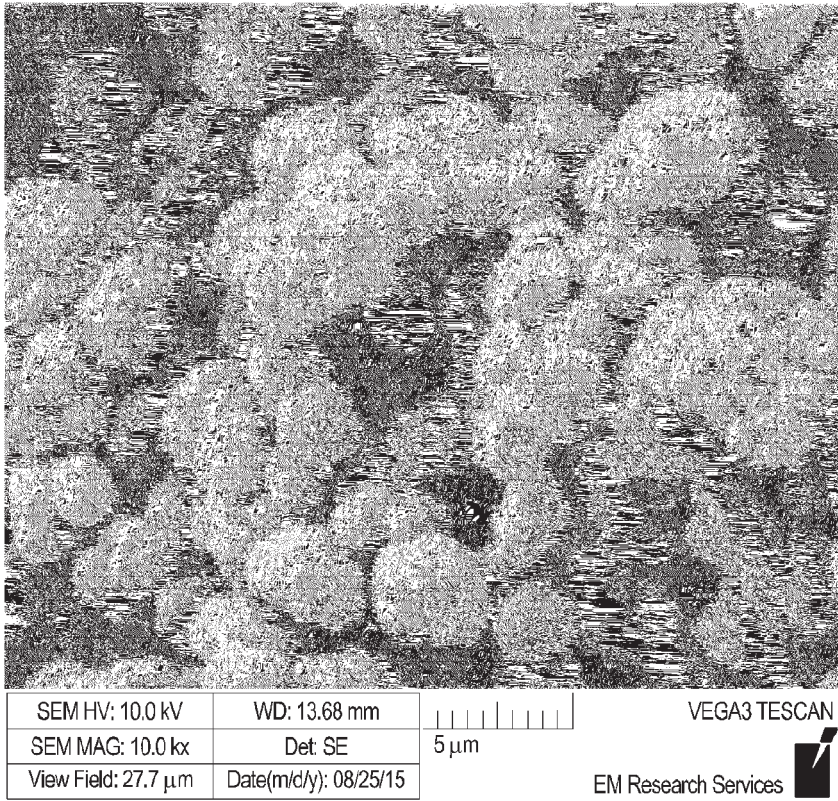


FIG. 17 (center)

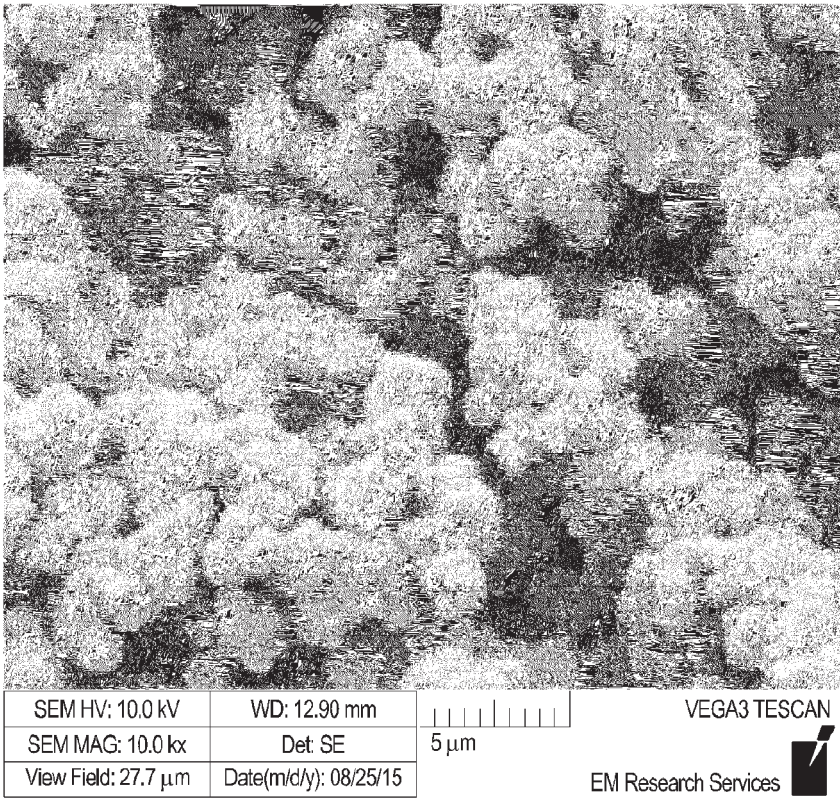


FIG. 17 (right)

FIGURE 18

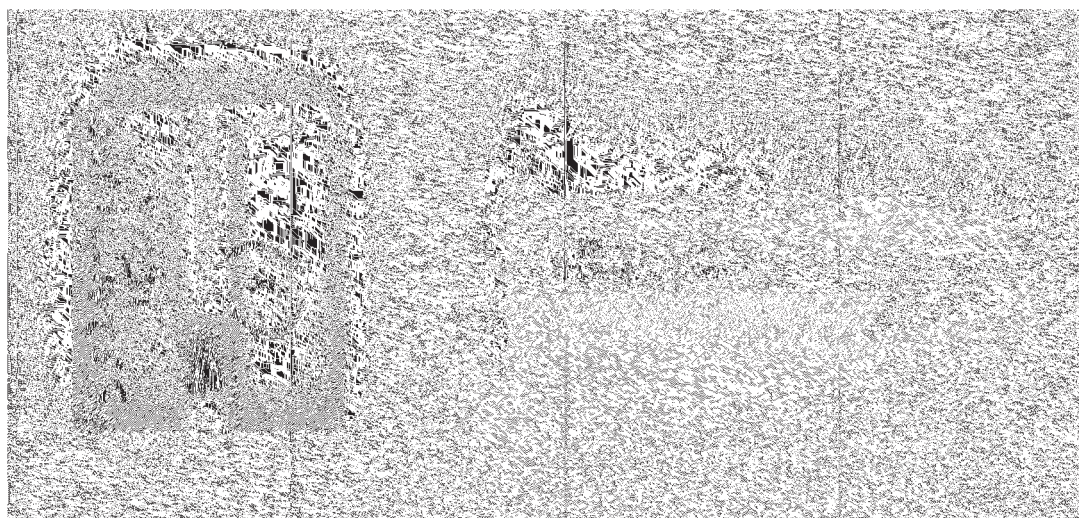


FIGURE 19



FIGURE 20

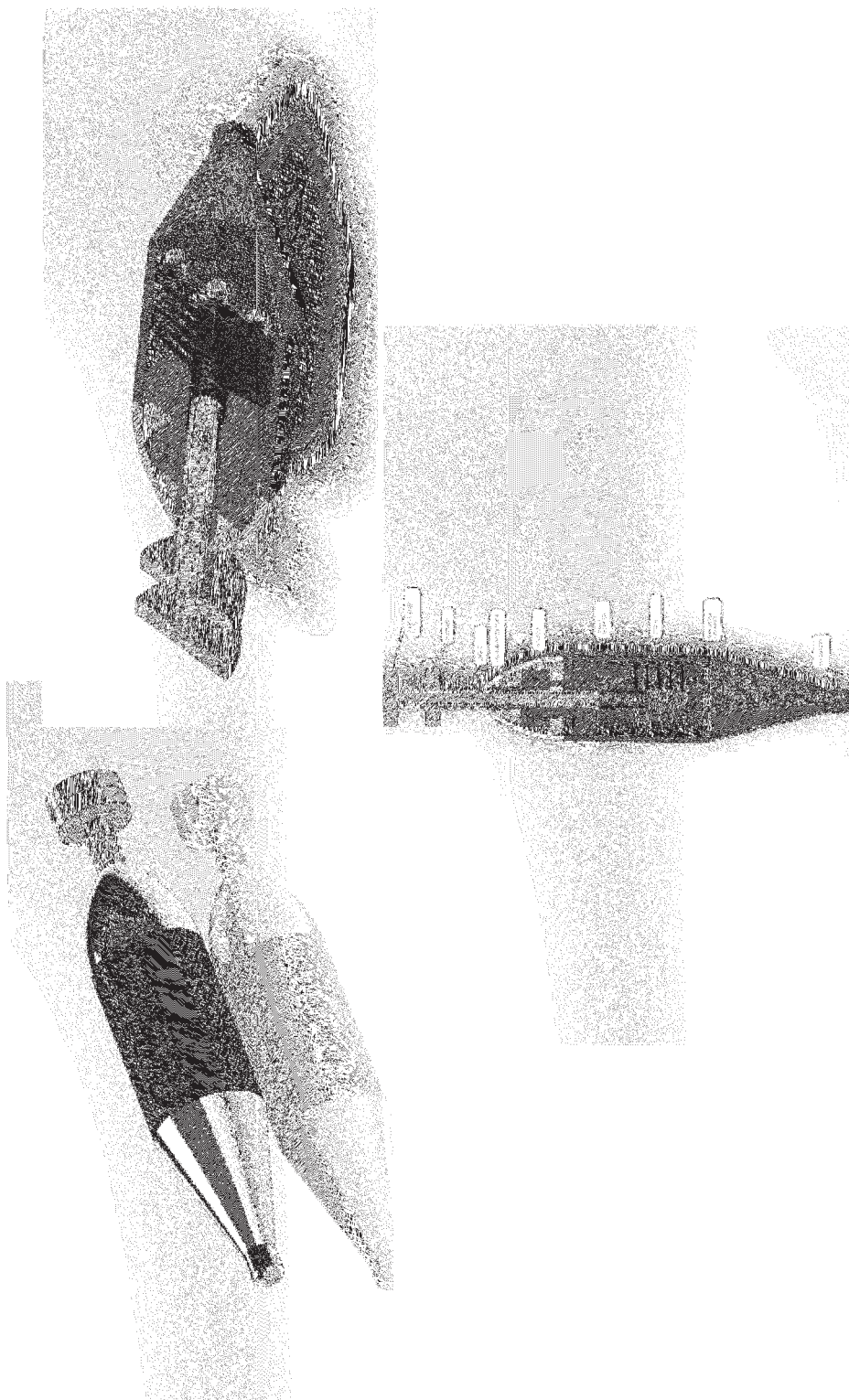


FIGURE 21

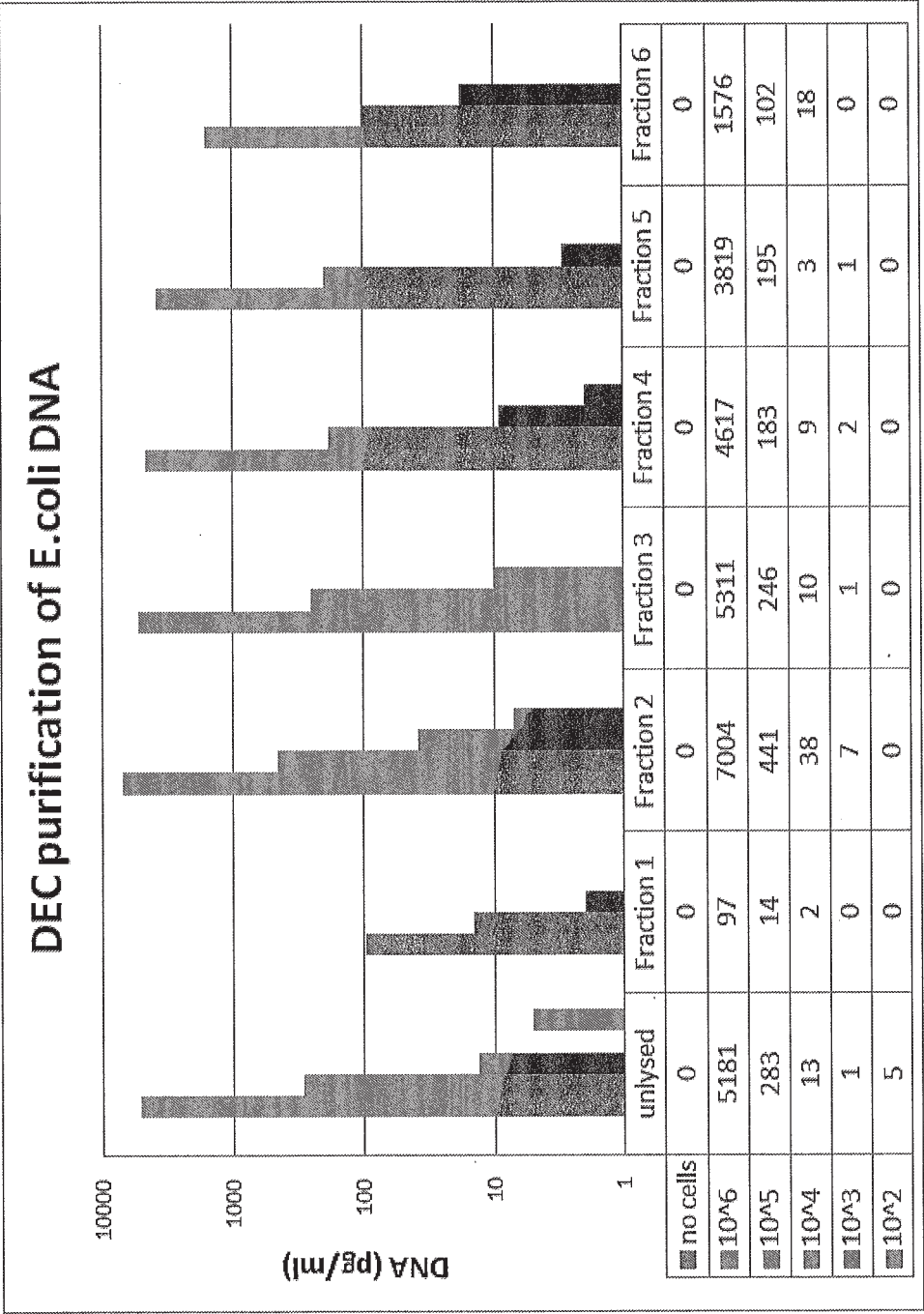


FIGURE 22

A

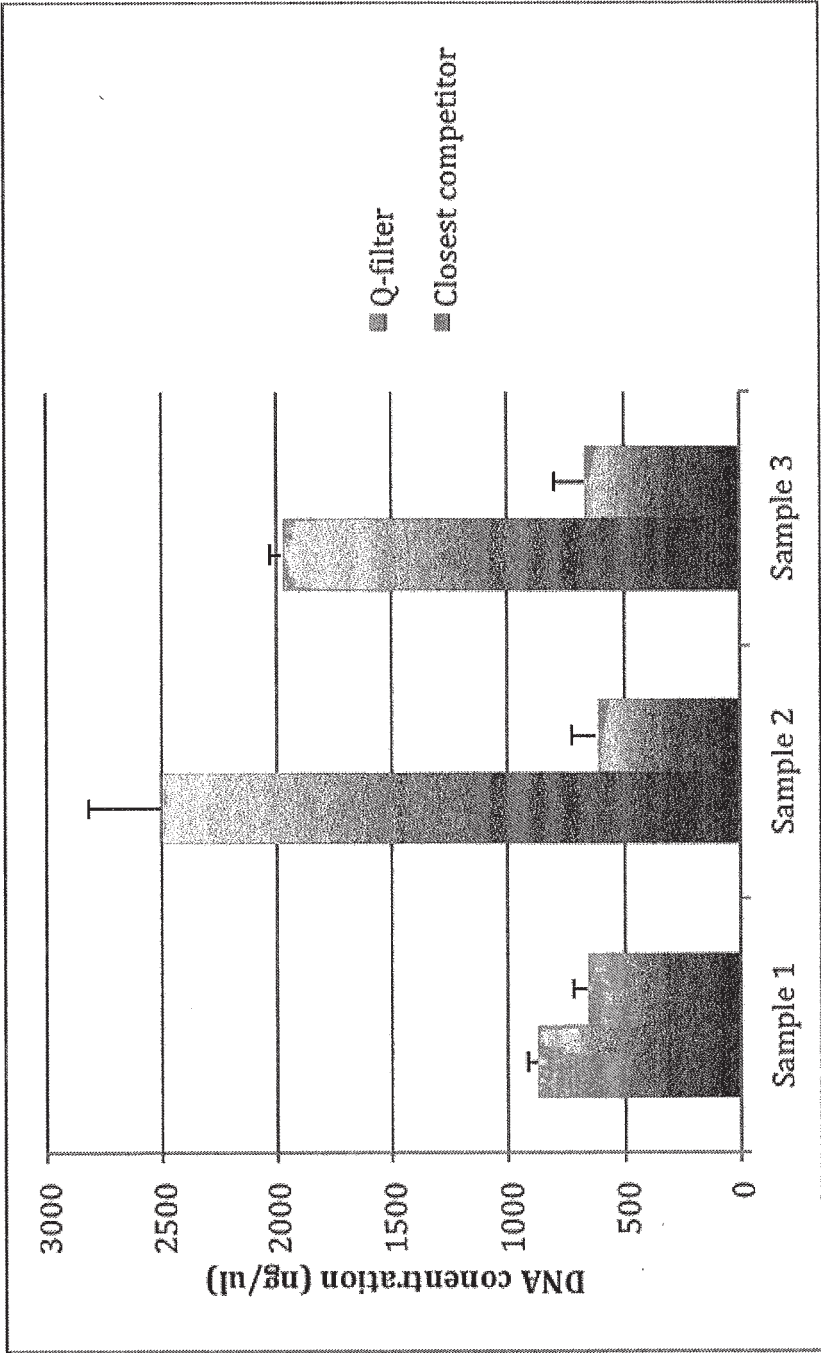


FIGURE 22 (continued)

B. Tissue

	-ve	1	2	3	4	5	Ave.	StD	Ave yield, μg
Alternative Spin Columns	3.3	22	24.1	24.6	25.7	13.1	21.9	5.1	4.4
Protein ($\mu\text{g}/\text{ml}$)	19.7	20	22.1	19.8	21.1	32.2			
QMDx Spin Columns	2.7	22.4	27.3	26.8	25.8	29.9	26.4	2.7	4
Protein ($\mu\text{g}/\text{ml}$)	10.2	11.3	12	10.4	10	14.1			

C. Bacterial Plasmids

	-ve	1	2	3	4	5	Ave	StD	Ave yield, μg
Alternative Spin Columns	0	0.45	0.14	0.24	0.28	0.27	0.28	0.11	13.8
Protein ($\mu\text{g}/\text{ml}$)	< 10	< 10	< 10	< 10	< 10	< 10			
QMDx Spin Columns	0	2.22	1.94	2.17	2.04	2.19	2.11	0.12	844.8
Protein ($\mu\text{g}/\text{ml}$)	< 10	< 10	< 10	< 10	< 10	< 10			

D. Buccal Swabs

	-ve	1	2	3	4	5	Ave	StD	Ave yield, μg
Alternative Spin Columns	< 0.1	3	2.6	2	4	3.1	2.9	0.7	441.9
Protein ($\mu\text{g}/\text{ml}$)	< 10	< 10	< 10	< 10	< 10	< 10			
QMDx Spin Columns	< 0.1	2.4	2.4	2.5	2.4	2.1	2.4	0.1	711.6
Protein ($\mu\text{g}/\text{ml}$)	17.2	22.5	25.1	24.3	25.4	19.7			