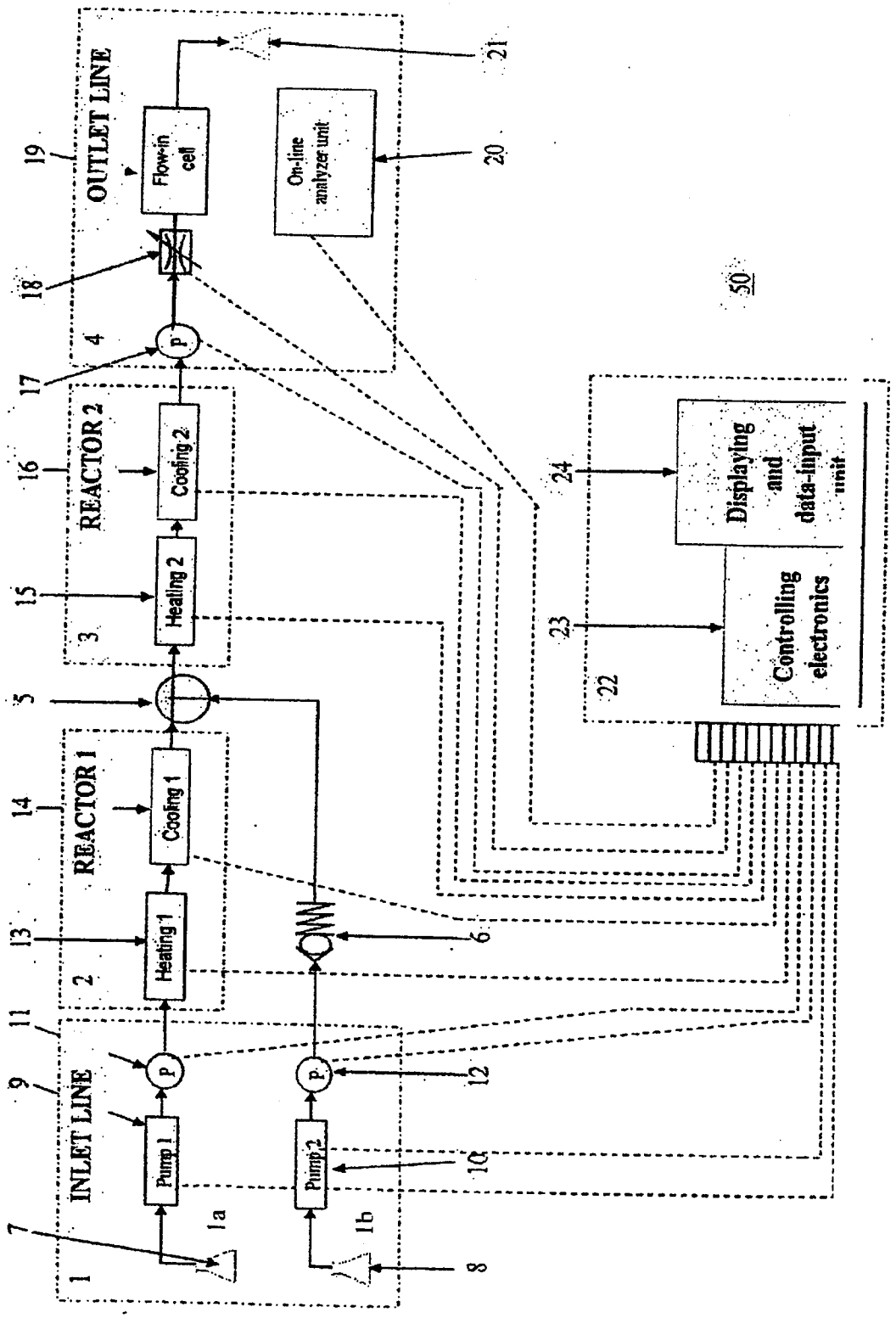

Figure 1

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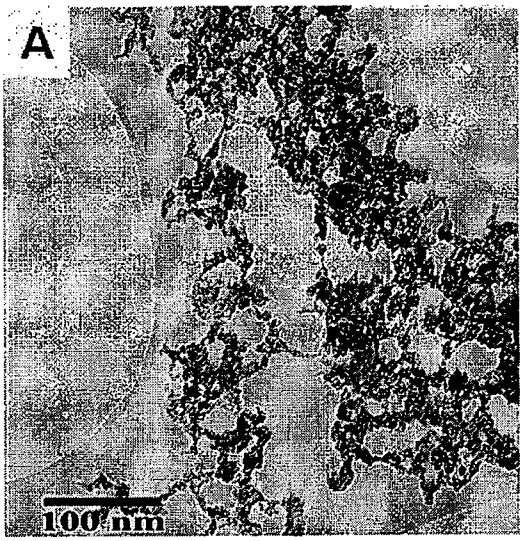


Figure 2a

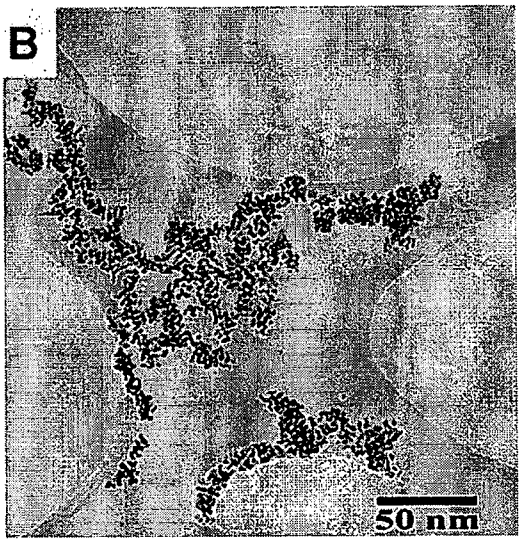


Figure 2b

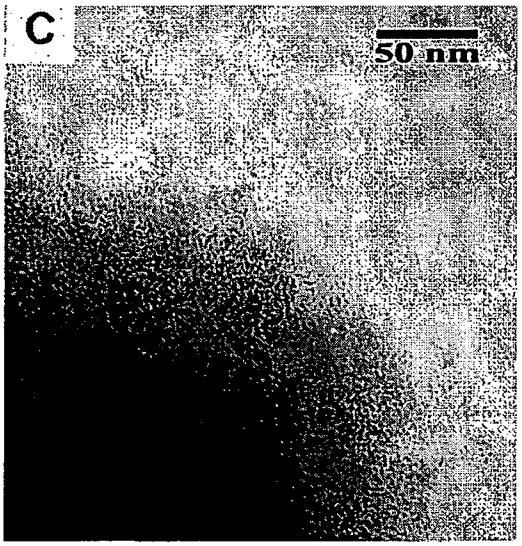


Figure 2c

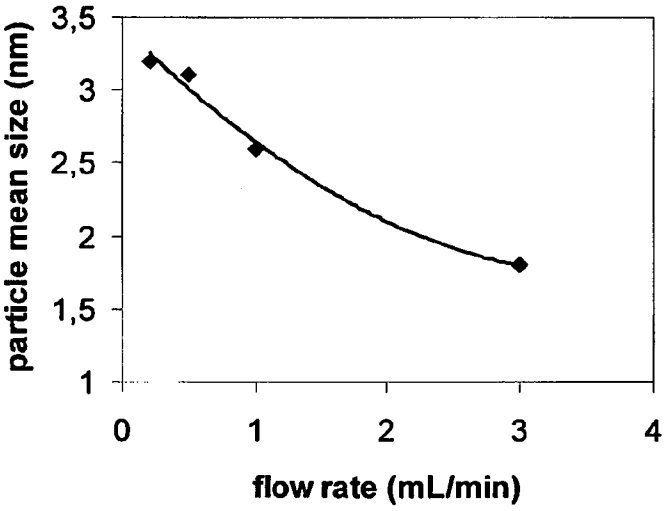


Figure 2d

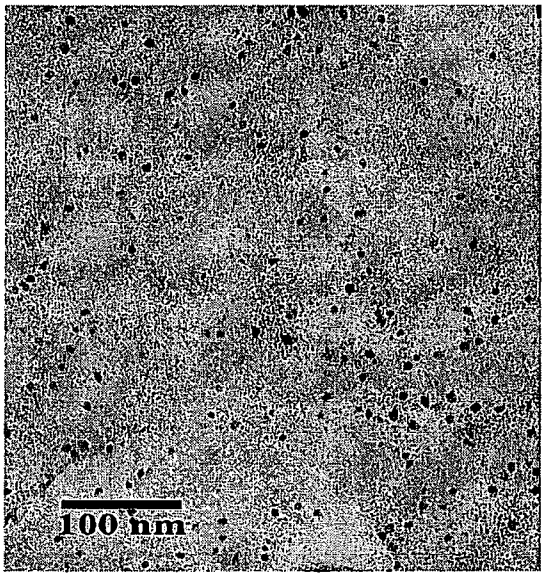


Figure 3

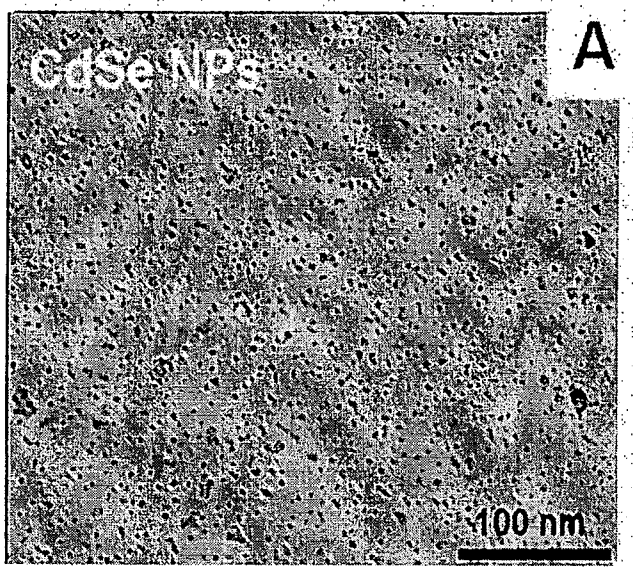


Figure 4a

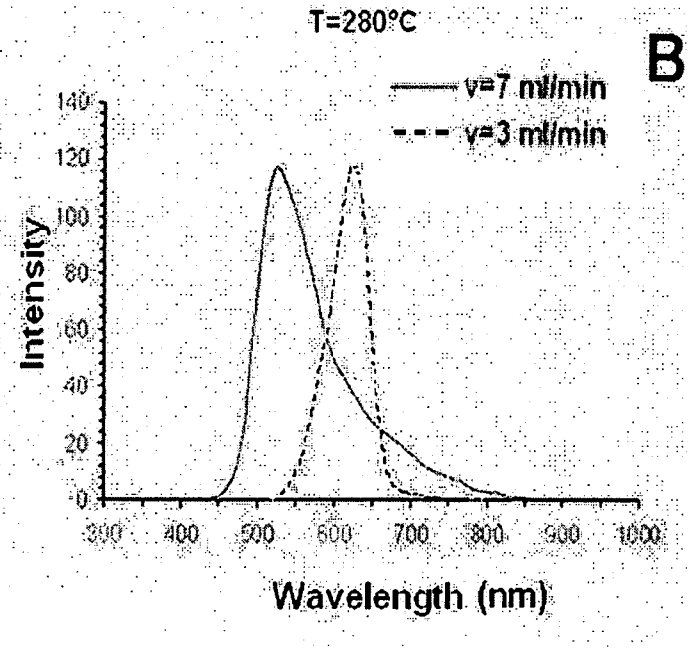
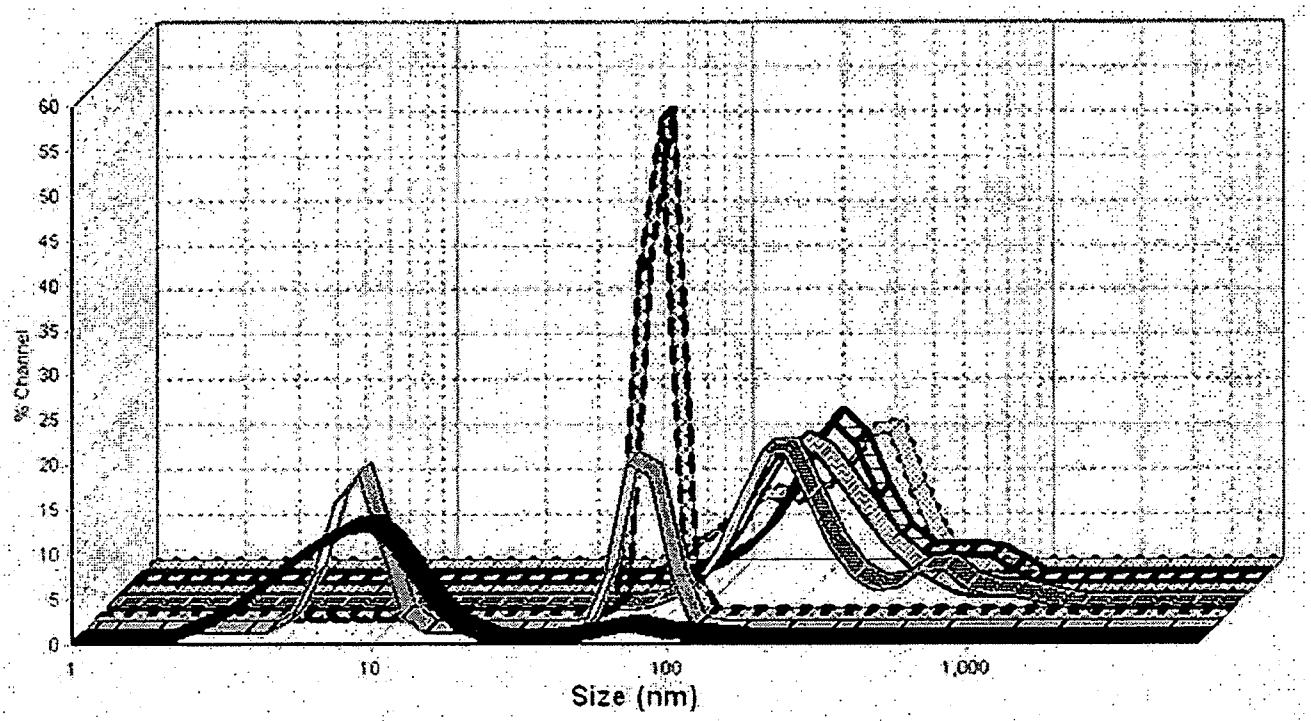


Figure 4b



■ : $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 0.5 mL/min

: $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 0.6 mL/min

: $v_{solvent}$= 1mL/min, $v_{antisolvent}$= 0.7 mL/min

: $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 0.8 mL/min

: $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 0.9 mL/min

: $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 1.0 mL/min

: $v_{solvent}$= 1 mL/min, $v_{antisolvent}$= 1.2 mL/min

Figure 5

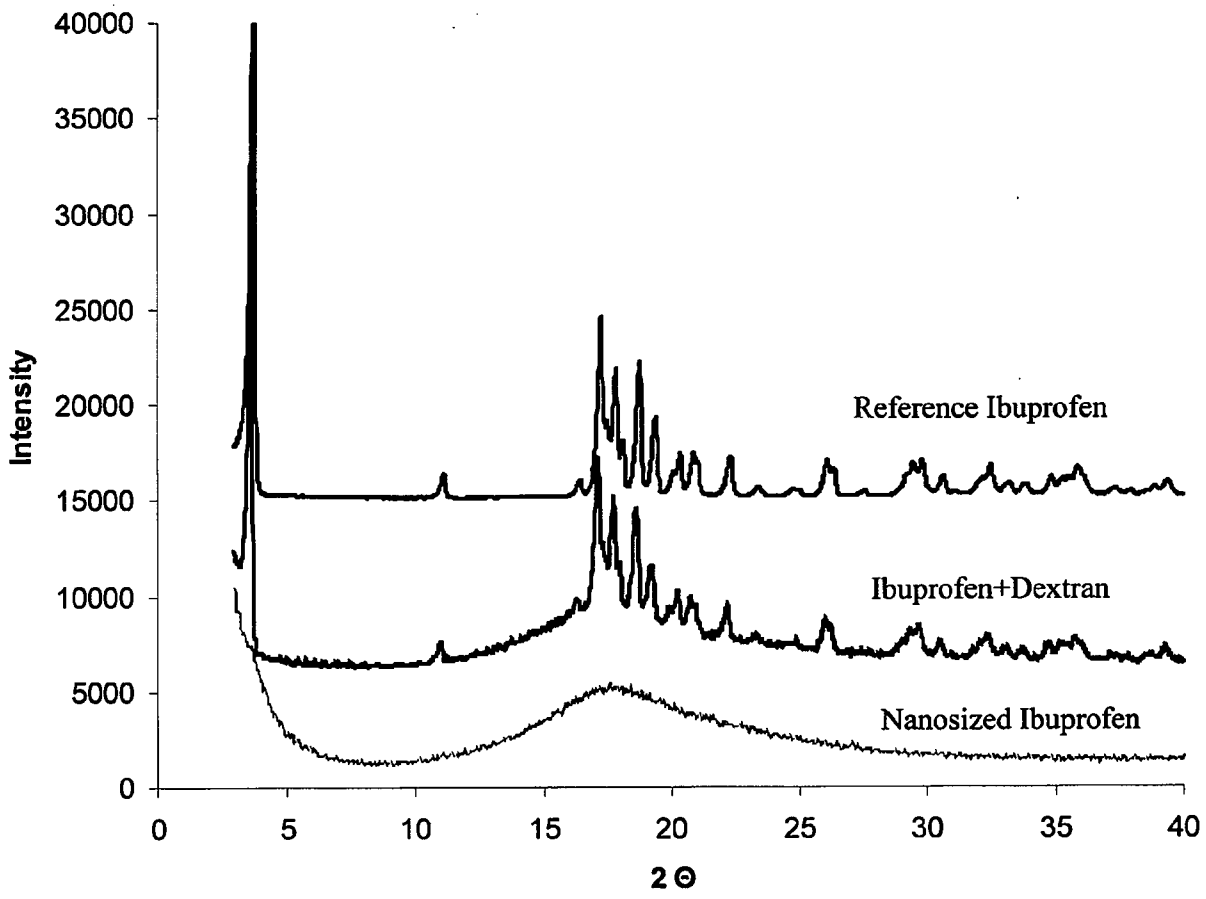

40000
35000
30000
25000
20000
15000
10000
5000
0
Intensity
0
5
10
15
20
25
30
35
40
2Θ
Reference Ibuprofen
Ibuprofen+Dextran
Nanosized Ibuprofen

Figure 6

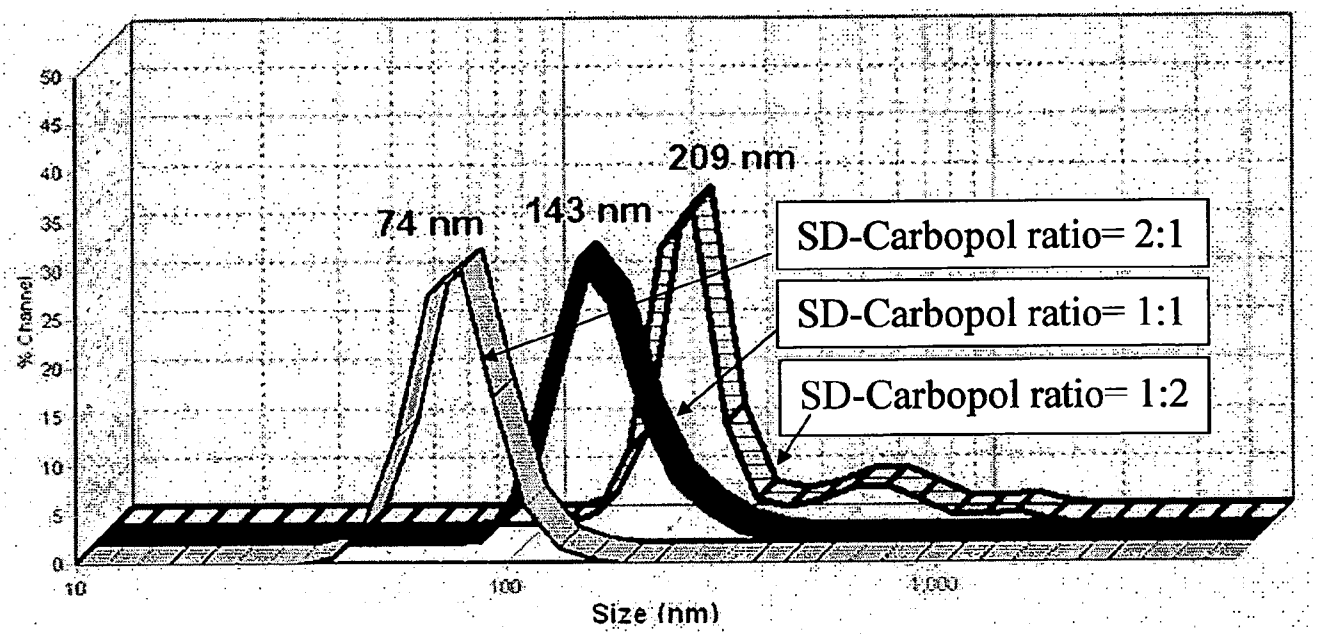

74 nm
143 nm
209 nm
SD-Carbopol ratio= 2:1
SD-Carbopol ratio= 1:1
SD-Carbopol ratio= 1:2
% Channel
Size (nm)
10
100
1,000

Figure 7

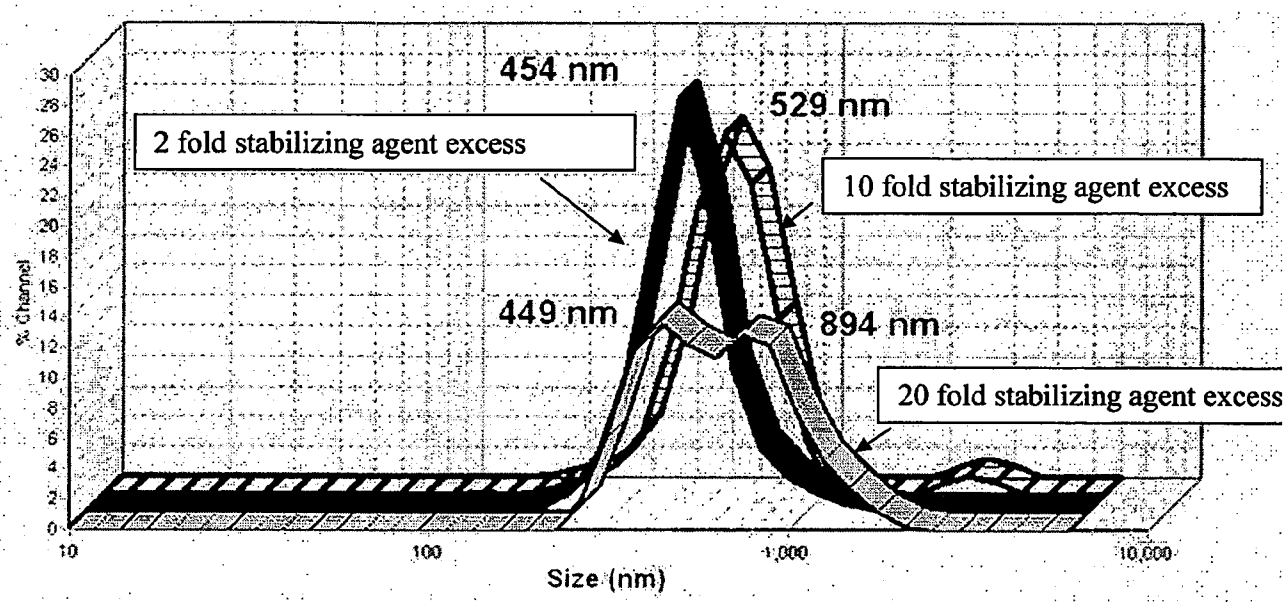

454 nm
529 nm
2 fold stabilizing agent excess
10 fold stabilizing agent excess
449 nm
894 nm
20 fold stabilizing agent excess
% Channel
Size (nm)
10
100
1,000
10,000

Figure 8

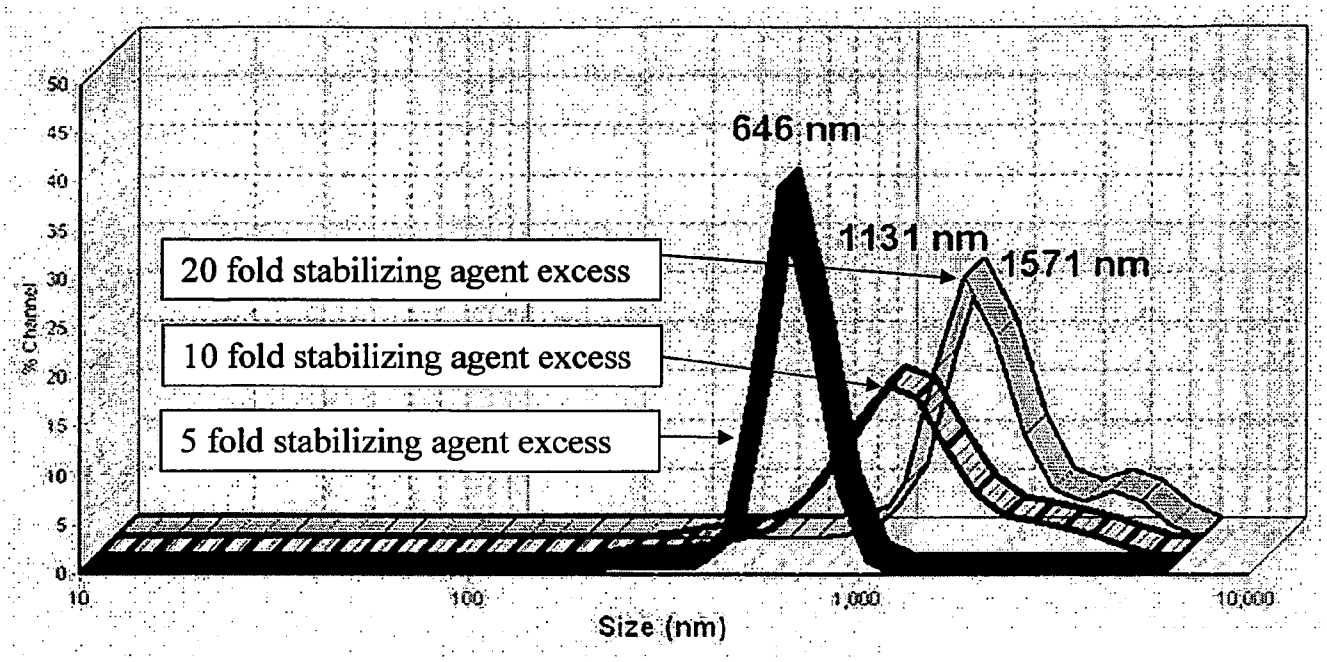

646 nm
1131 nm
1571 nm
20 fold stabilizing agent excess
10 fold stabilizing agent excess
5 fold stabilizing agent excess
% Channel
Size (nm)
10
100
1,000
10,000

Figure 9

Applied cooling	Mean particle size (nm)				
	1. experiment	2. experiment	3. experiment	4. experiment	5. experiment
Air-cooling	9.3	11.8	10.4	8.2	14.8
Countercurrent heat-exchanger	3.6	3.6	3.7	3.9	3.8

Figure 10 / Table 1