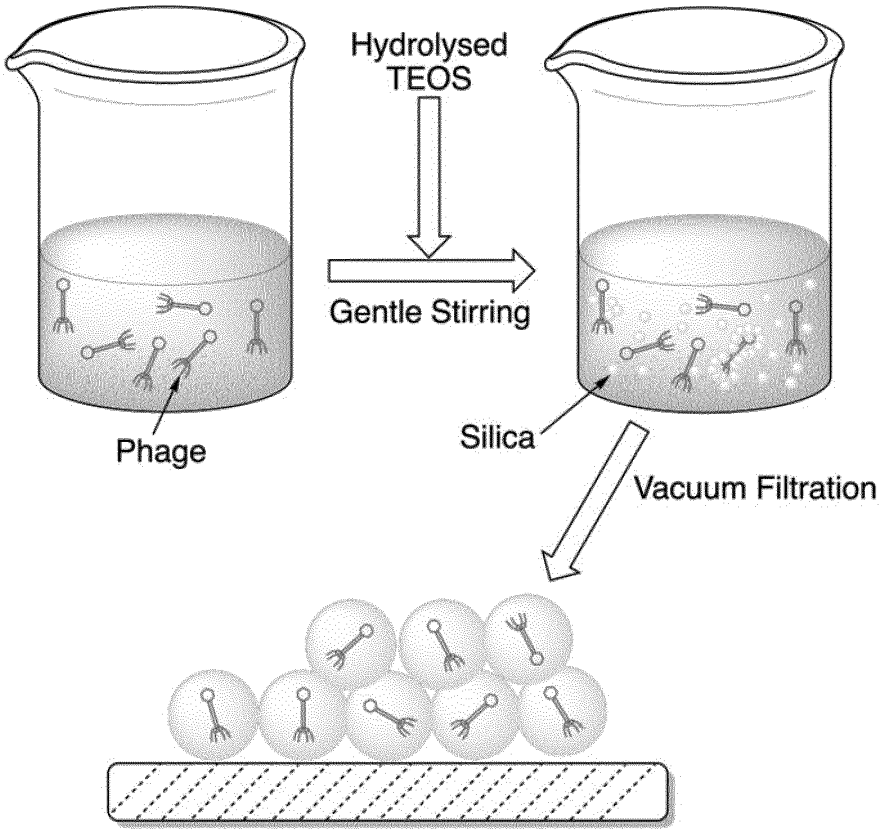

Hydrolysed
TEOS
Gentle Stirring
Phage
Silica
Vacuum Filtration

Figure 1

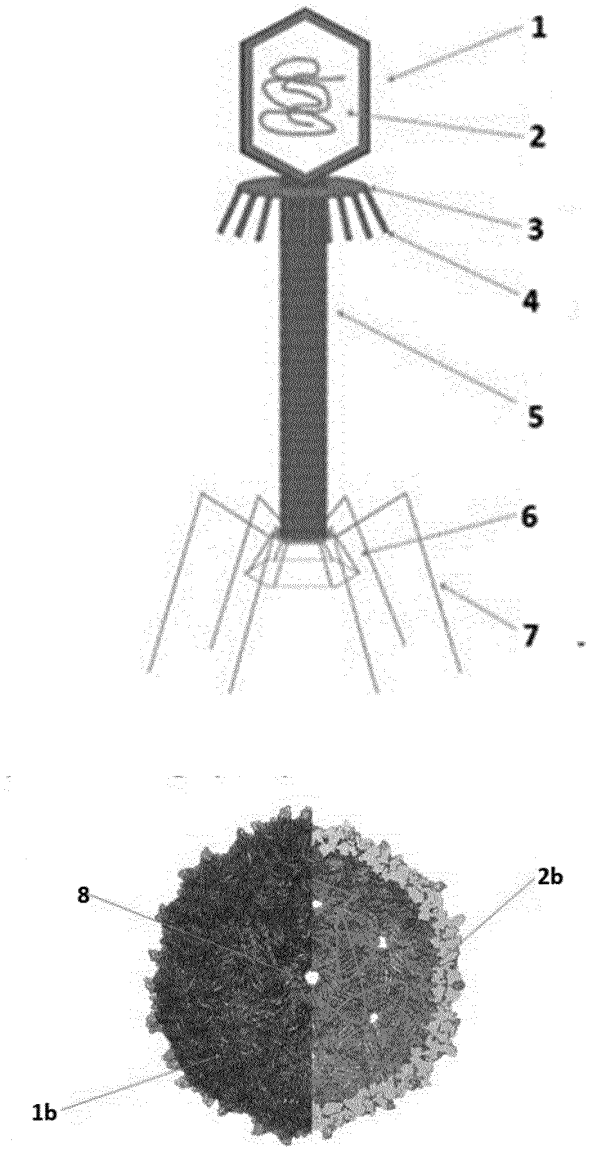


Figure 2

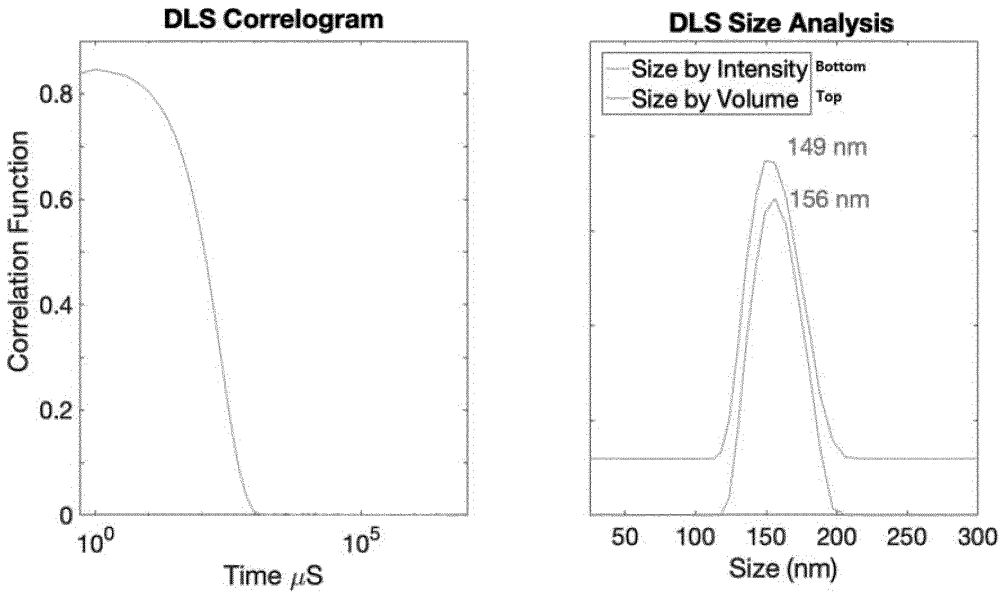

DLS Correlogram
Correlation Function
0
0.2
0.4
0.6
0.8
10^0
10^5
Time μS
DLS Size Analysis
Size by Intensity
Bottom
Size by Volume
Top
149 nm
156 nm
50
100
150
200
250
300
Size (nm)

Figure 3

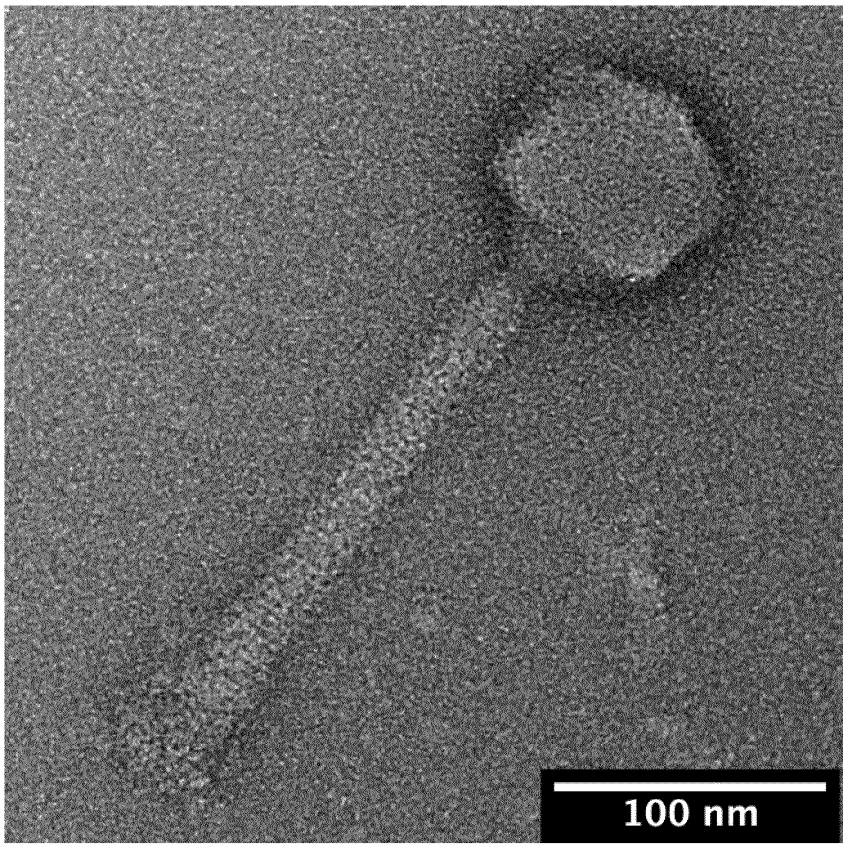


Figure 4

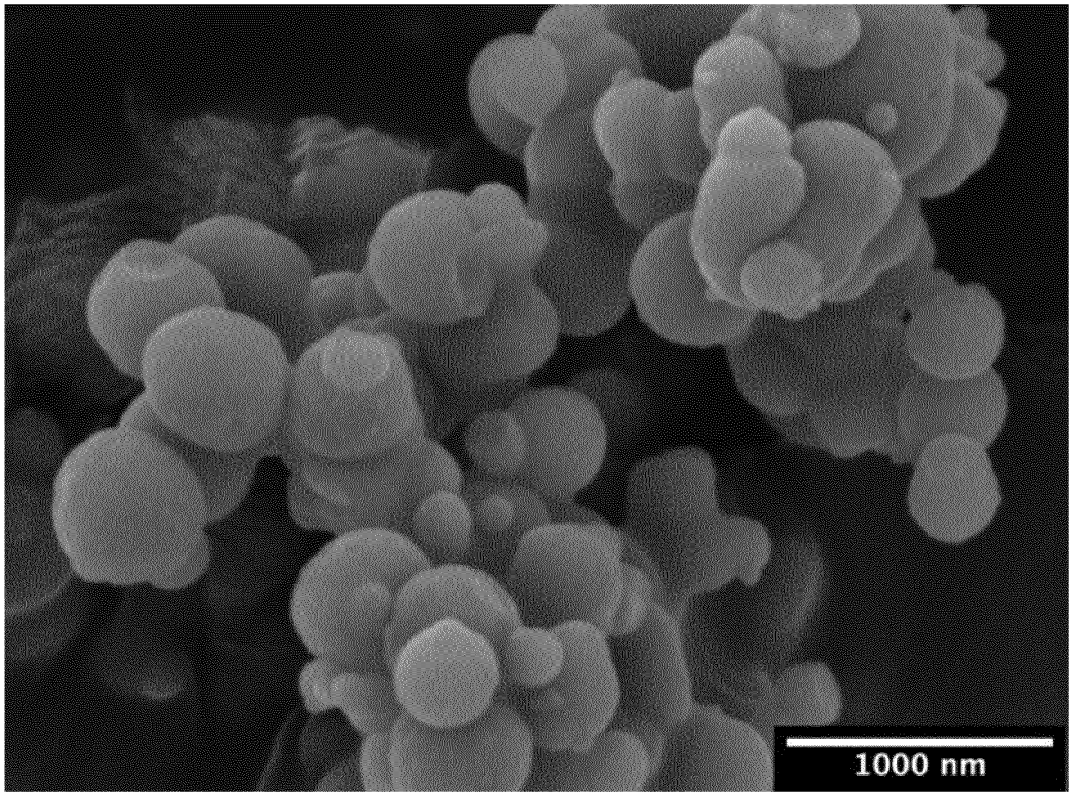


Figure 5

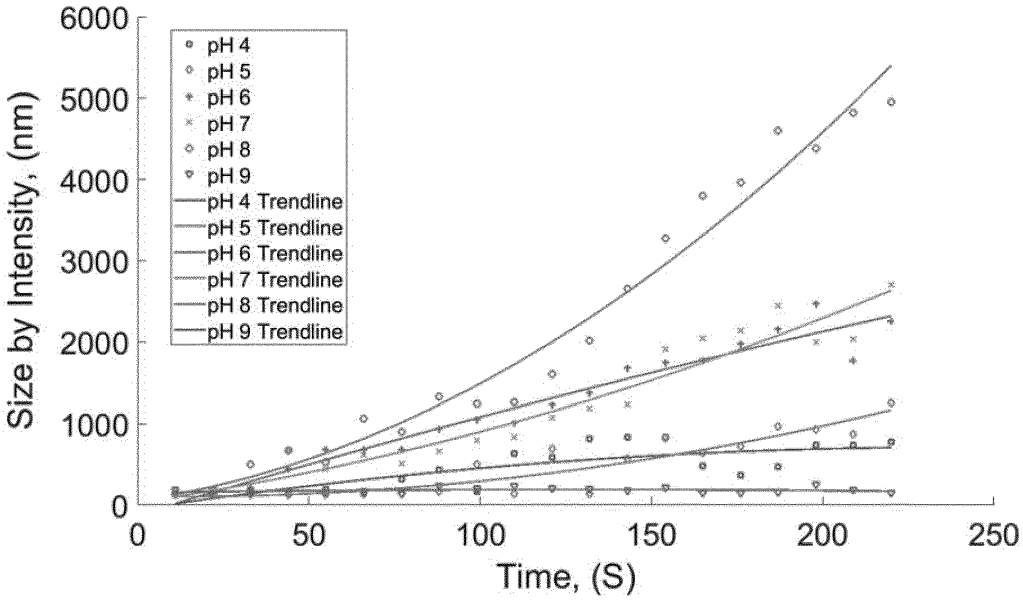

Size by Intensity, (nm)
Time, (S)
pH 4
pH 5
pH 6
pH 7
pH 8
pH 9
pH 4 Trendline
pH 5 Trendline
pH 6 Trendline
pH 7 Trendline
pH 8 Trendline
pH 9 Trendline
0
1000
2000
3000
4000
5000
6000
0
50
100
150
200
250

Figure 6

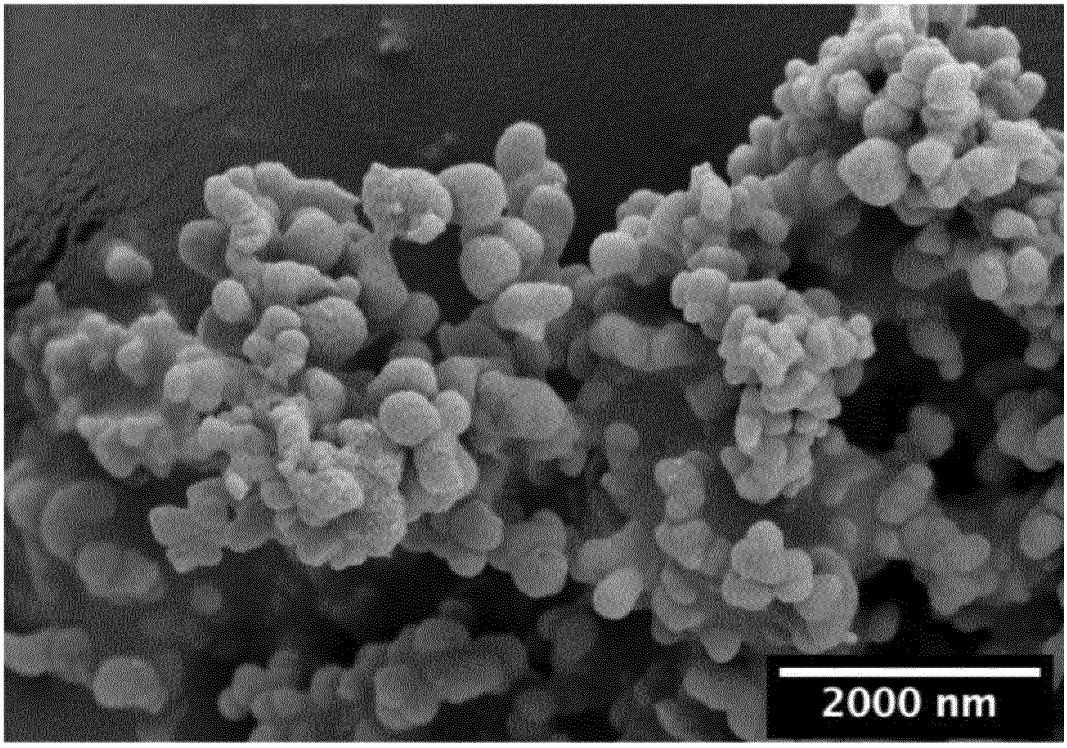


Figure 7

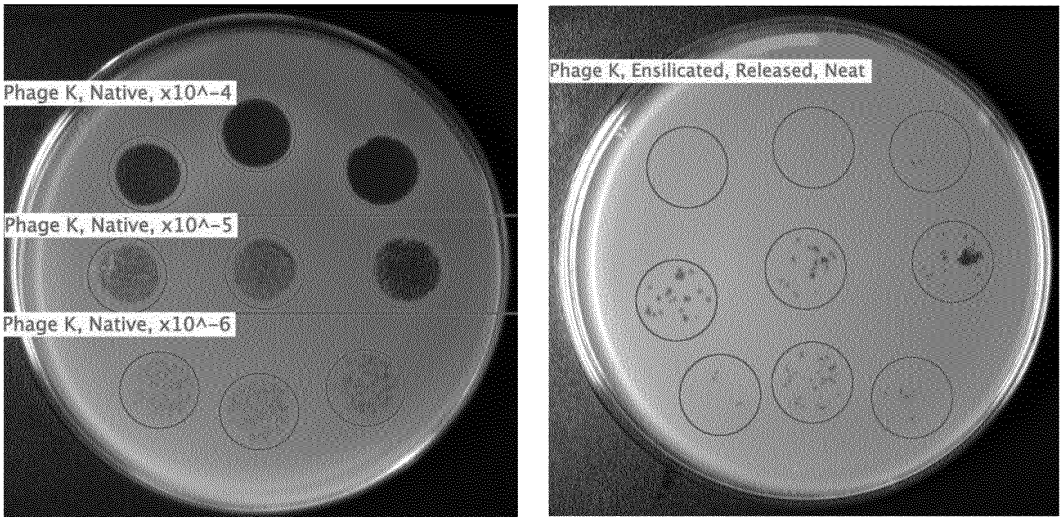


Figure 8

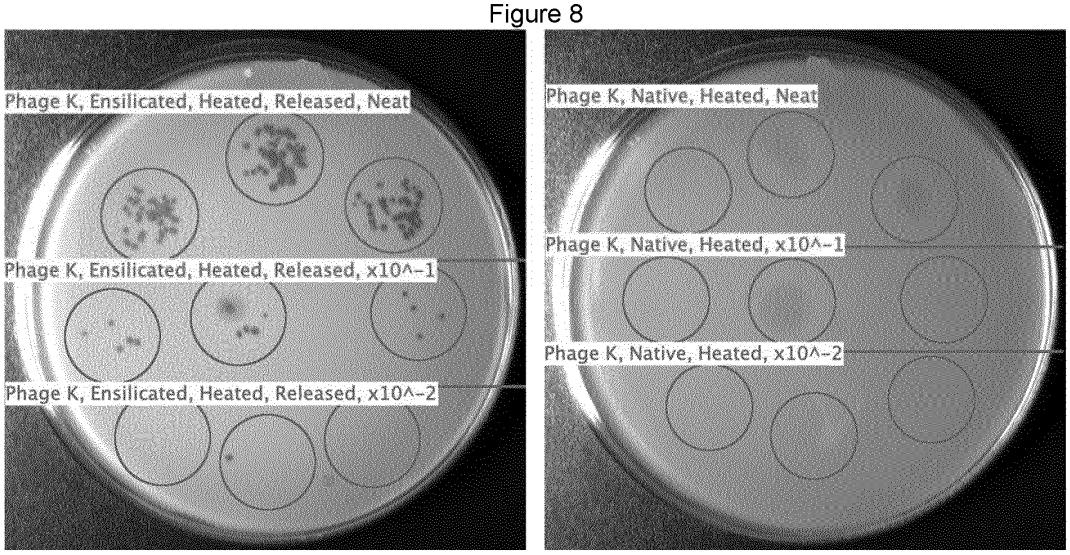
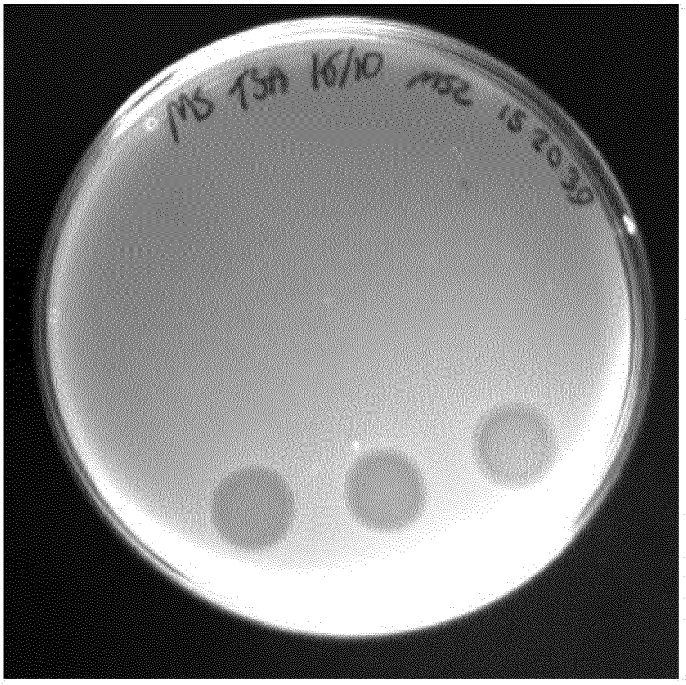
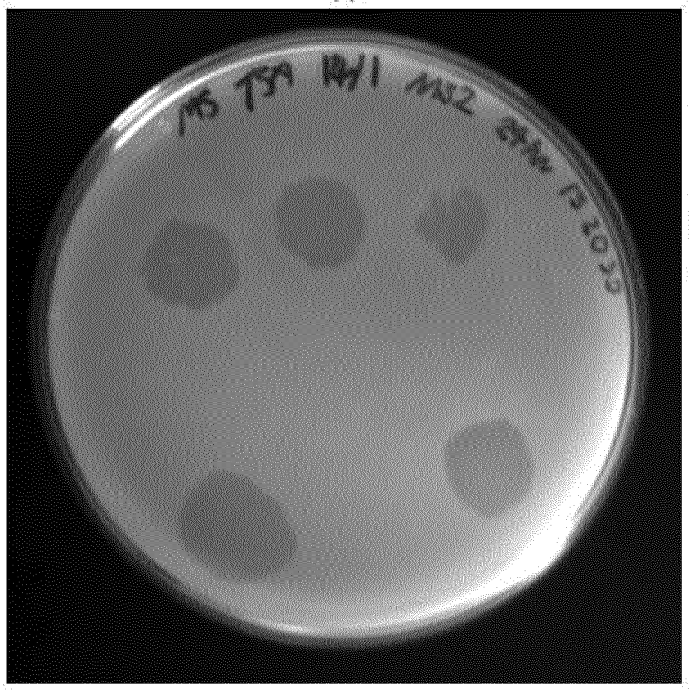


Figure 9



(a)



(b)

Figure 10

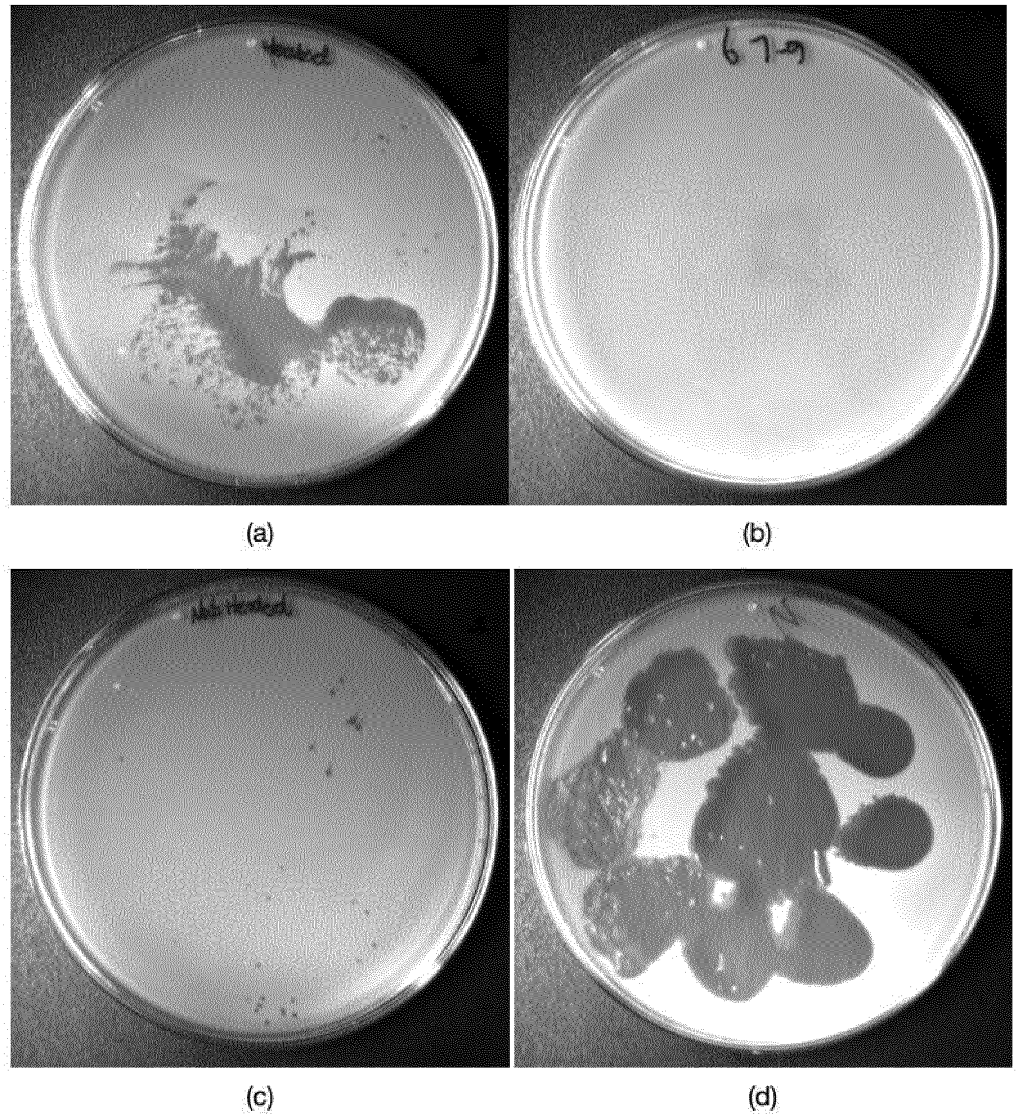
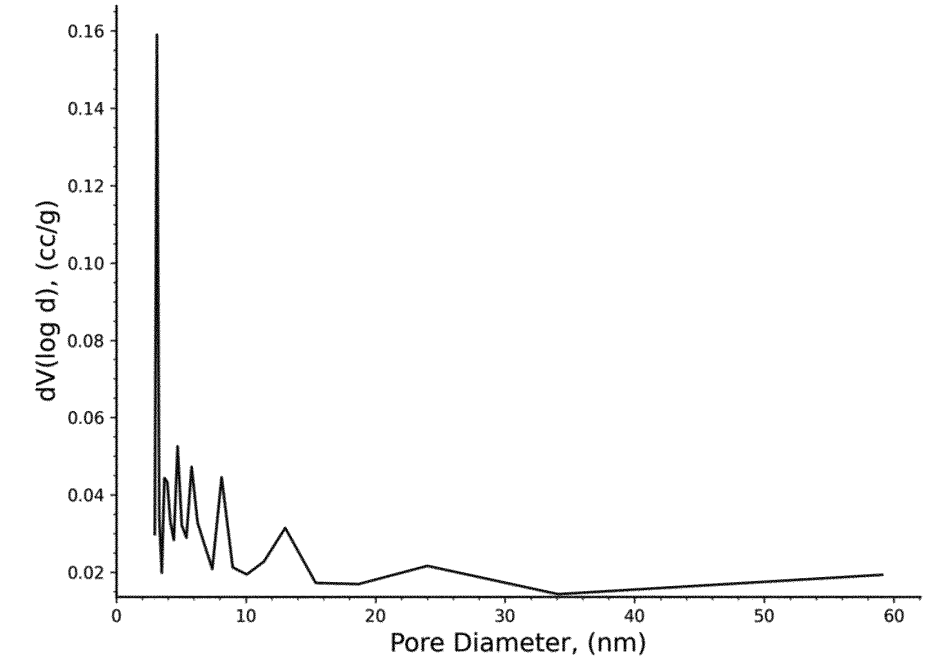


Figure 11


0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
dV(log d), (cc/g)
0
10
20
30
40
50
60
Pore Diameter, (nm)

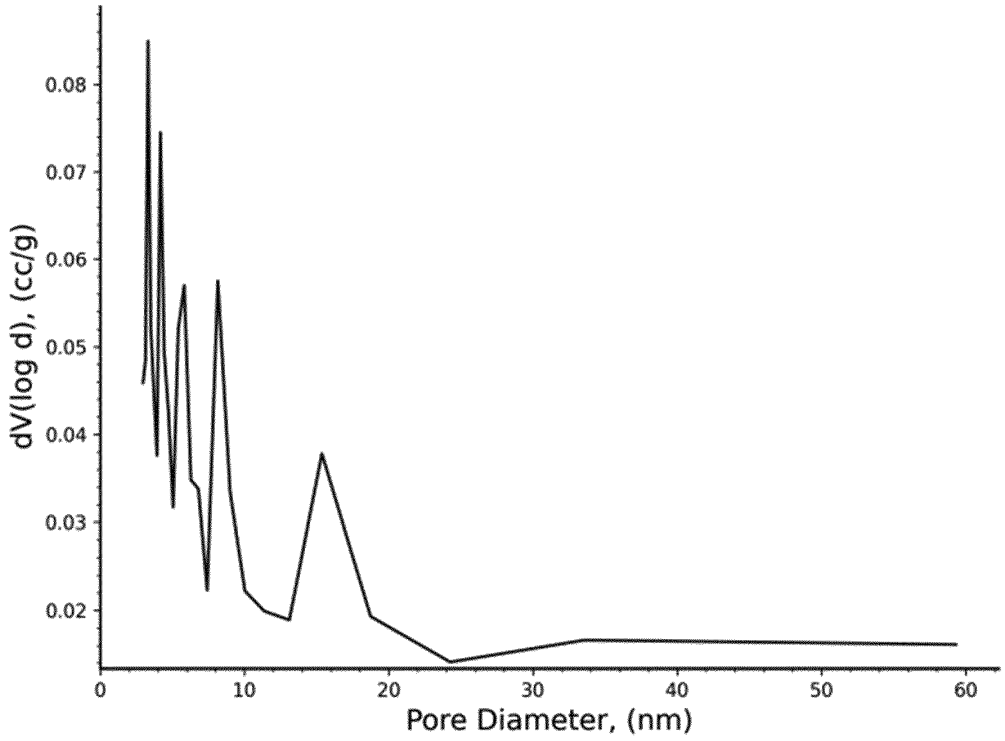

0.08
0.07
0.06
0.05
0.04
0.03
0.02
dV(log d), (cc/g)
0
10
20
30
40
50
60
Pore Diameter, (nm)

Figure 12

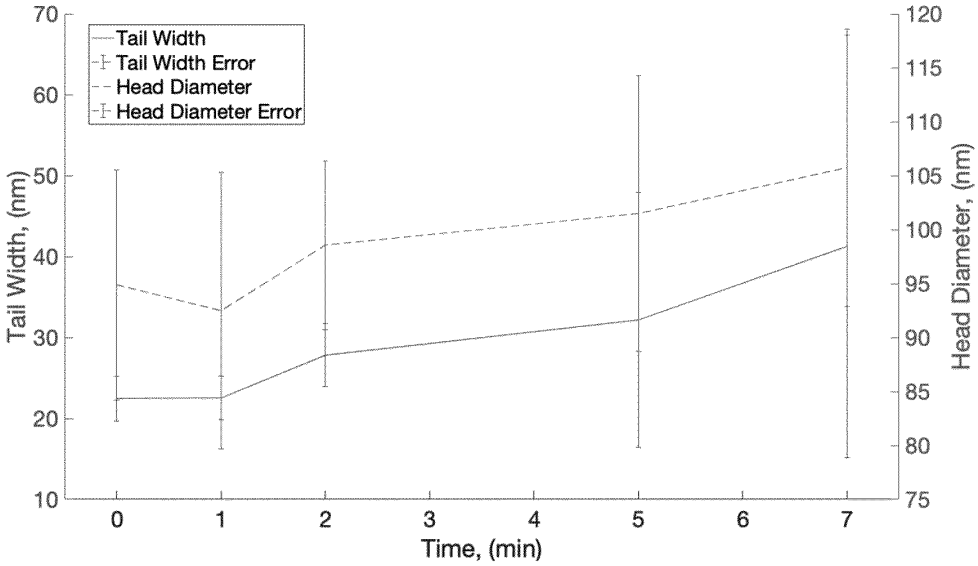

Tail Width
Tail Width Error
Head Diameter
Head Diameter Error
Tail Width, (nm)
Head Diameter, (nm)
Time, (min)
70
60
50
40
30
20
10
120
115
110
105
100
95
90
85
80
75
0
1
2
3
4
5
6
7

Figure 13

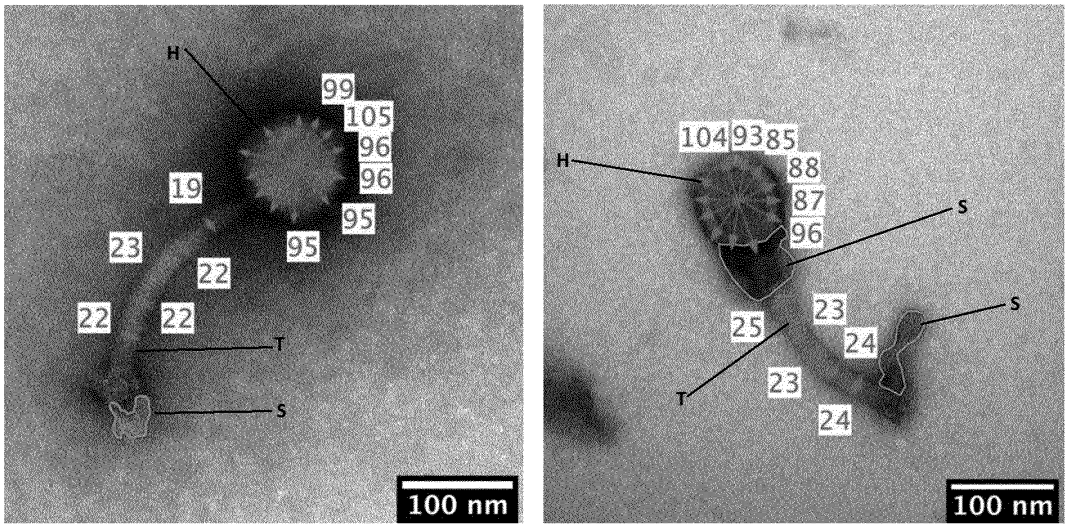


Figure 14

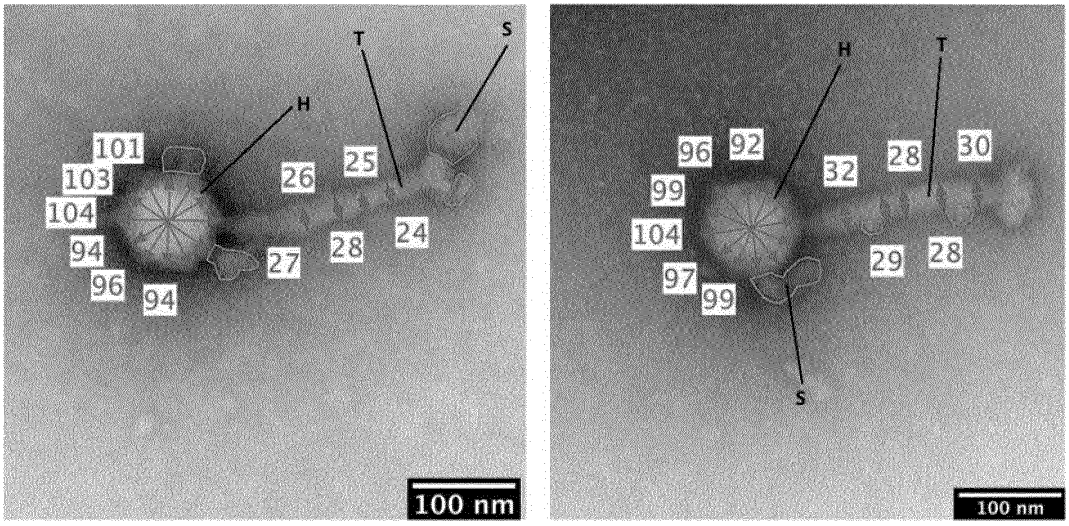


Figure 15

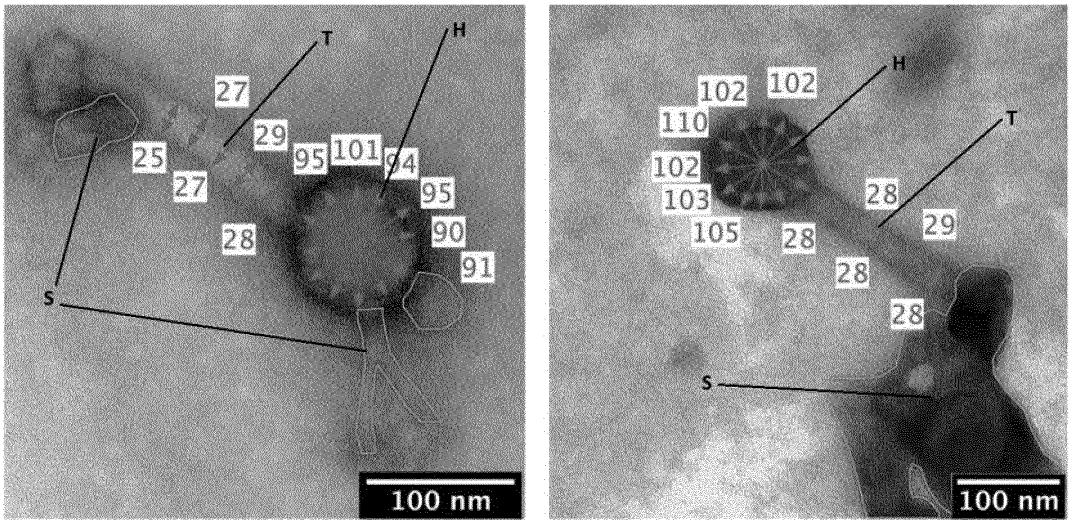


Figure 16

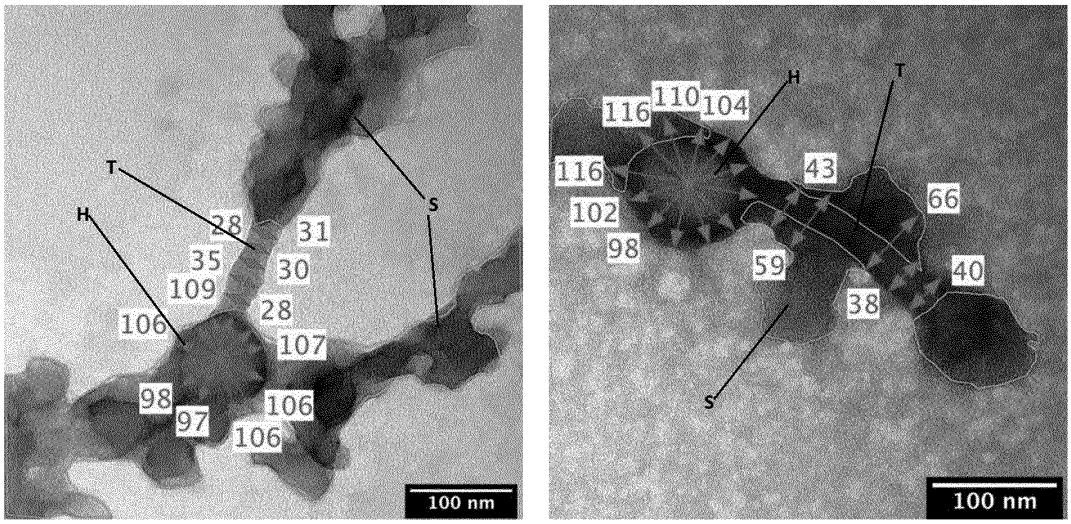


Figure 17

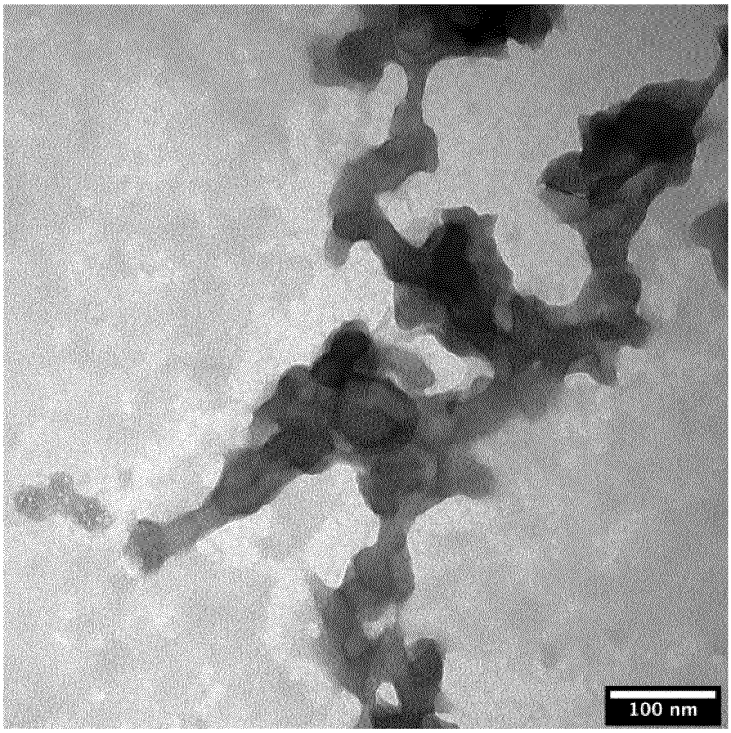


Figure 18