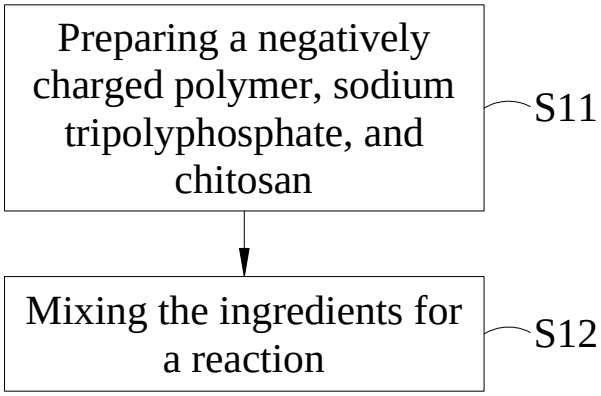

Preparing a negatively charged polymer, sodium tripolyphosphate, and chitosan
S11
Mixing the ingredients for a reaction
S12

FIG. 1

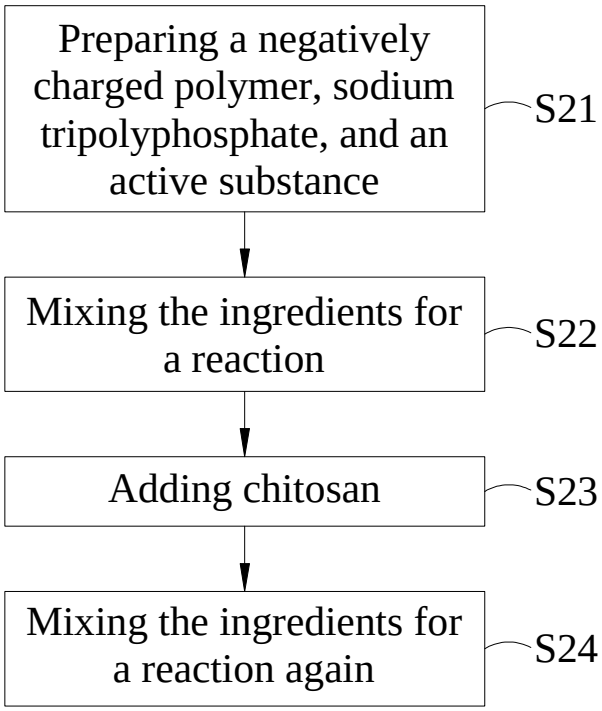

Preparing a negatively charged polymer, sodium tripolyphosphate, and an active substance
S21
Mixing the ingredients for a reaction
S22
Adding chitosan
S23
Mixing the ingredients for a reaction again
S24

FIG. 2

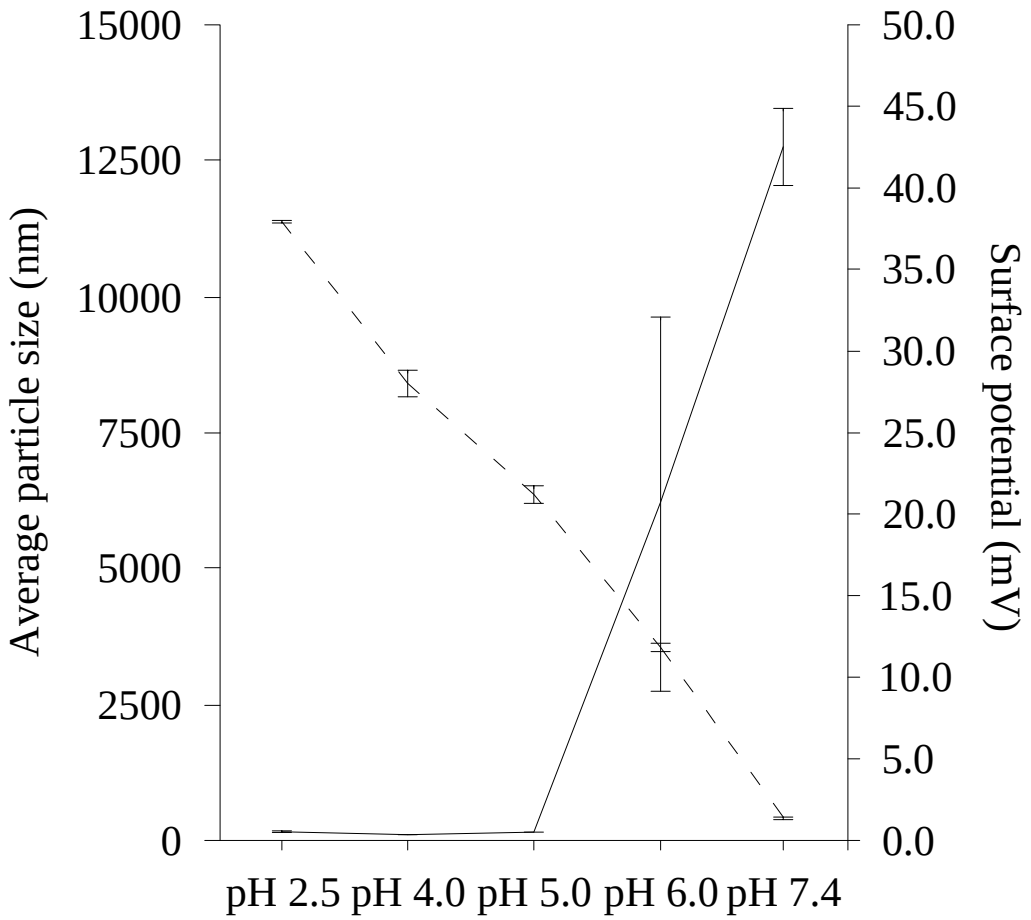

15000
12500
10000
7500
5000
2500
0
Average particle size (nm)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Surface potential (mV)
pH 2.5
pH 4.0
pH 5.0
pH 6.0
pH 7.4

FIG. 3

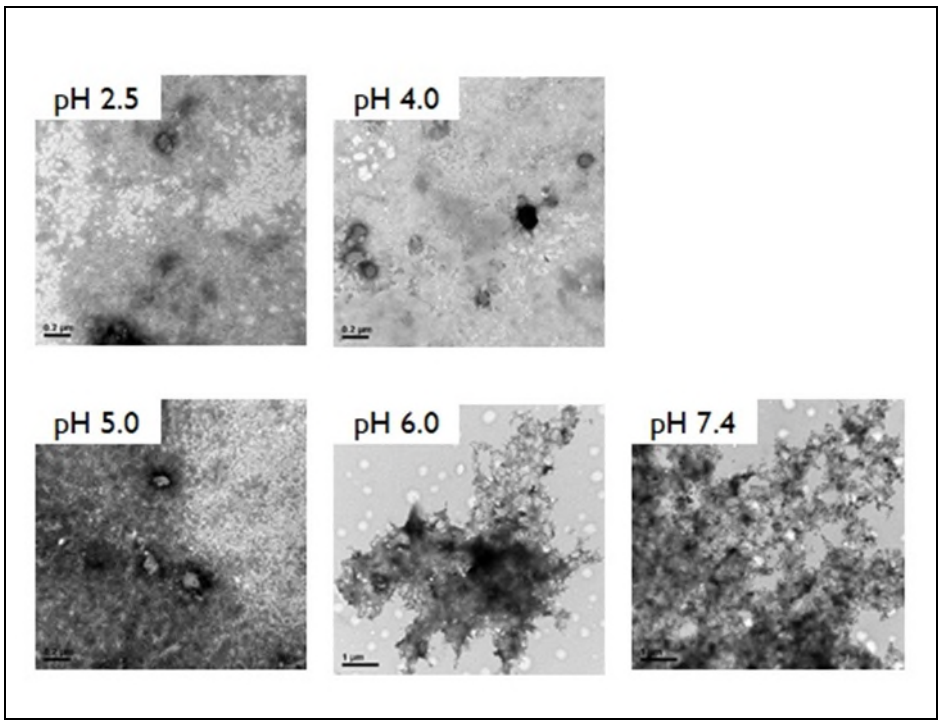


FIG. 4

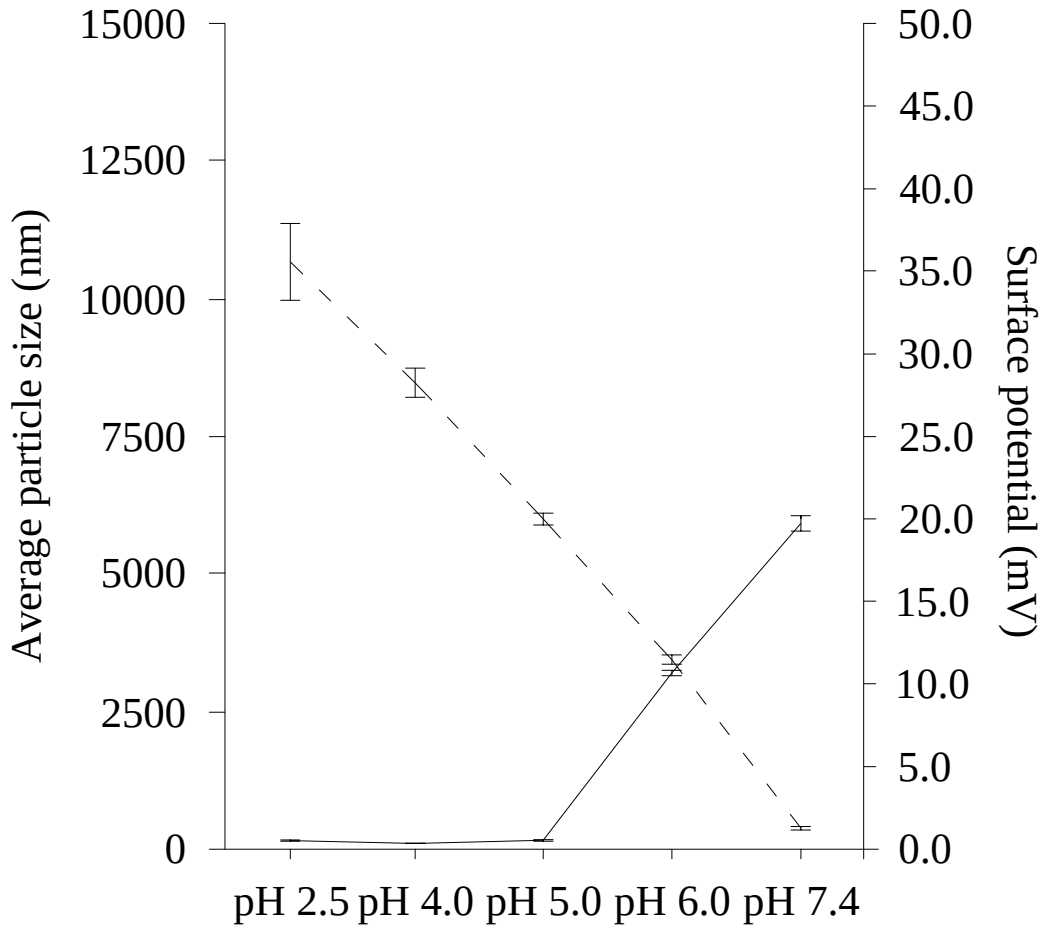

15000
12500
10000
7500
5000
2500
0
Average particle size (nm)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Surface potential (mV)
pH 2.5
pH 4.0
pH 5.0
pH 6.0
pH 7.4

FIG. 5

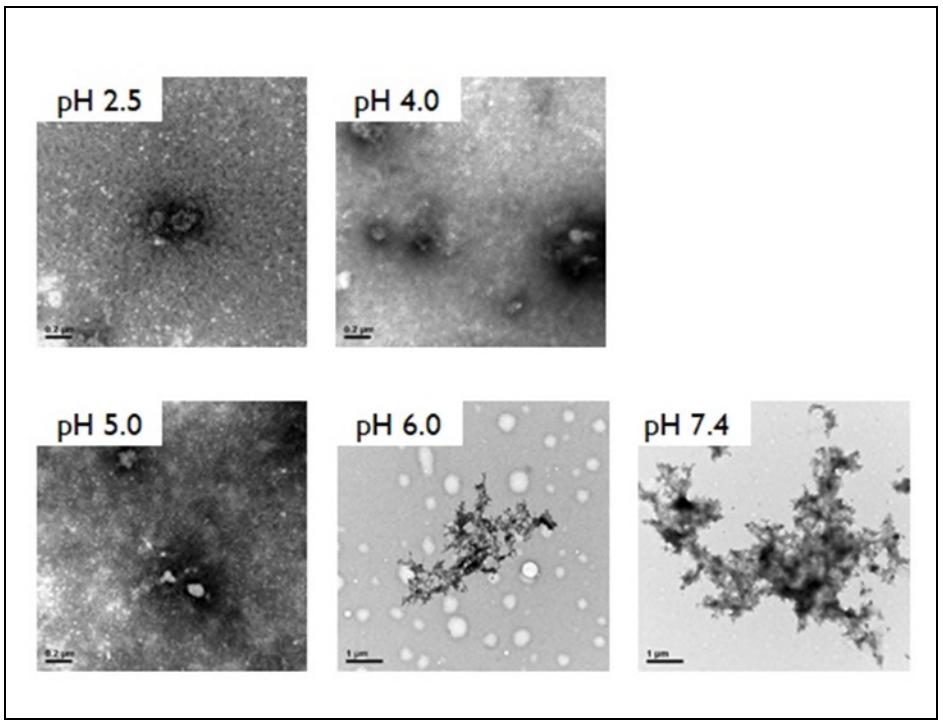


FIG. 6

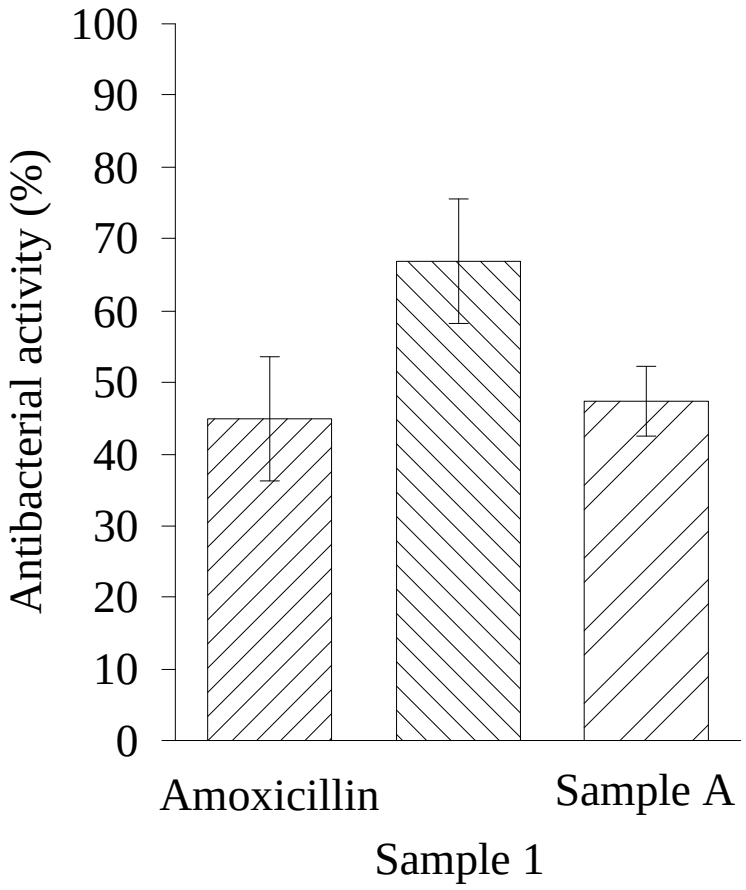

100
90
80
70
60
50
40
30
20
10
0
Antibacterial activity (%)
Amoxicillin
Sample A
Sample 1

FIG. 7

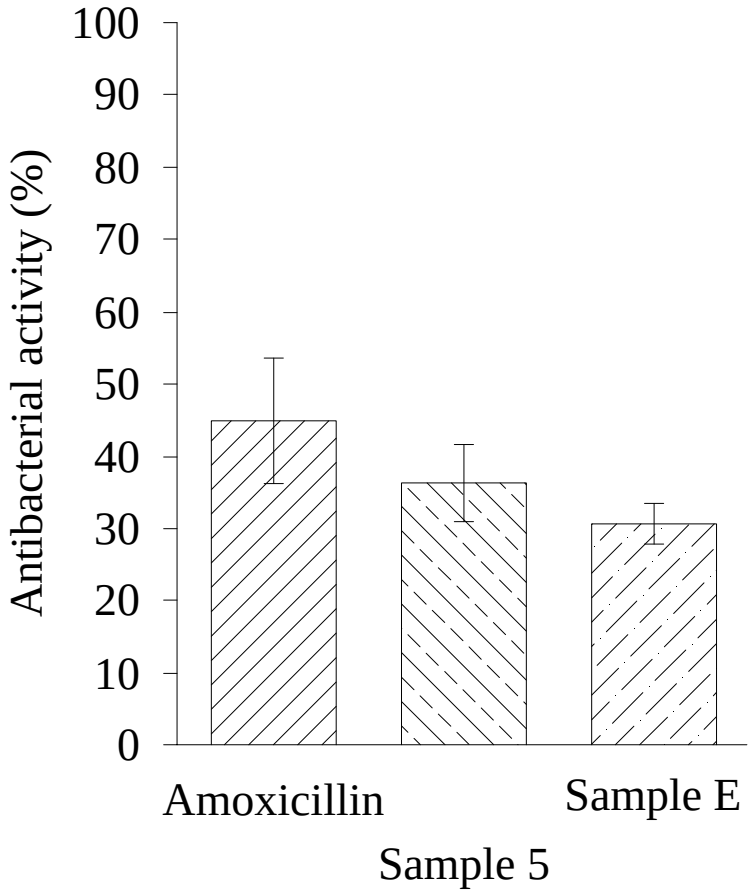

100
90
80
70
60
50
40
30
20
10
0
Antibacterial activity (%)
Amoxicillin
Sample E
Sample 5

FIG. 8