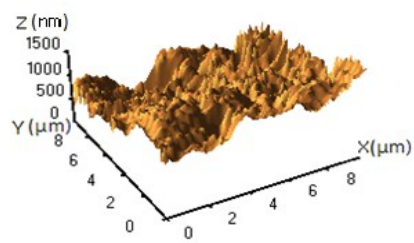
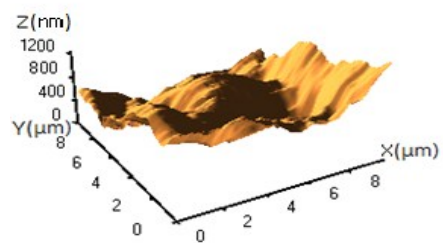


Table S1 The absorbance value of different functional groups in the FTIR-ATR spectra of various membranes.

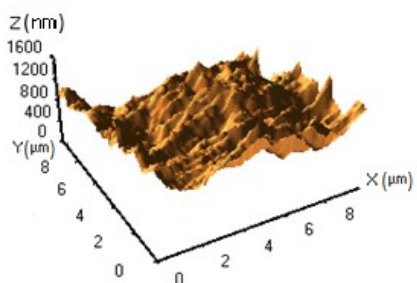
Membrane	C-O (1100 cm ⁻¹)	S=O (1150 cm ⁻¹)	C-O-C (1240 cm ⁻¹)	C=C (1480 cm ⁻¹)	C=C (1580 cm ⁻¹)	C-N (1609 cm ⁻¹)	C=O (1660 cm ⁻¹)
M1	0.0324	0.0507	0.0919	0.2011	0.2009	0.0000	0.0094
M2	0.0413	0.1231	0.1032	0.0239	0.0945	0.0025	0.0011
M3	0.0892	0.1611	0.1212	0.1302	0.0783	0.0091	0.0046
M4	0.0554	0.0668	0.1025	0.0135	0.0169	0.0043	0.0035
M5	0.1244	0.1503	0.1083	0.0933	0.1015	0.0005	0.0007
M6	0.0331	0.1372	0.0719	0.0282	0.0481	0.0091	0.0025
M7	0.0685	0.2232	0.2055	0.0923	0.0604	0.0046	0.0035
M8	0.0402	0.1088	0.0709	0.0393	0.0792	0.0055	0.0014
M9	0.0423	0.0610	0.1047	0.0617	0.0481	0.0017	0.0011
M10	0.0665	0.0727	0.1636	0.0732	0.0680	0.0009	0.0013
M12	0.0351	0.0673	0.0331	0.0382	0.0541	0.0033	0.0023
M15	0.0444	0.0999	0.0984	0.0427	0.0437	0.0012	0.0005
M18	0.0424	0.0423	0.0984	0.0420	0.0412	0.0040	0.0007



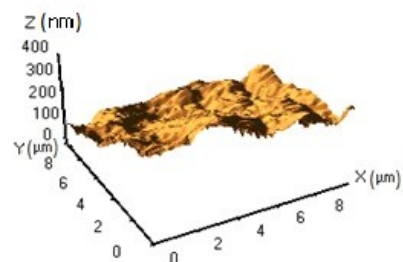
a)



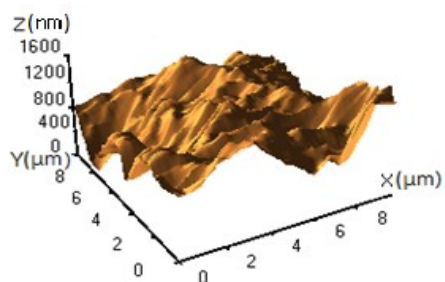
b)



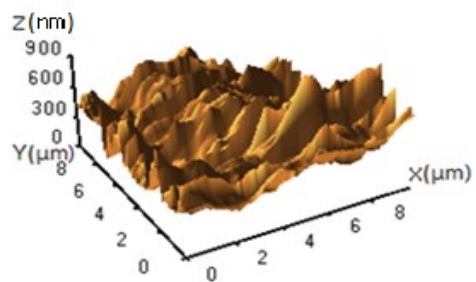
c)



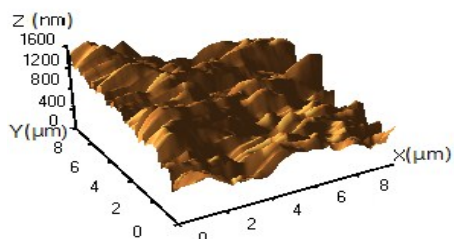
d)



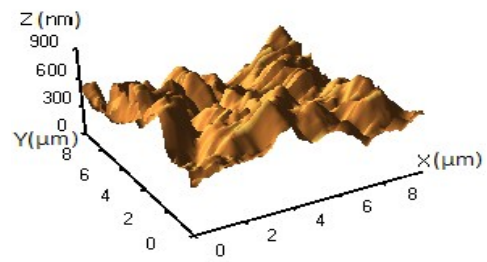
e)



d)



g)



h)

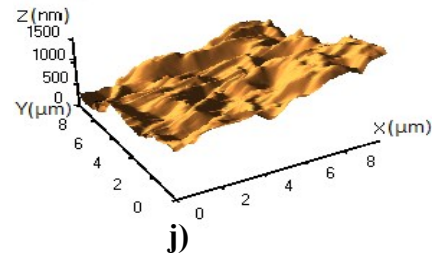
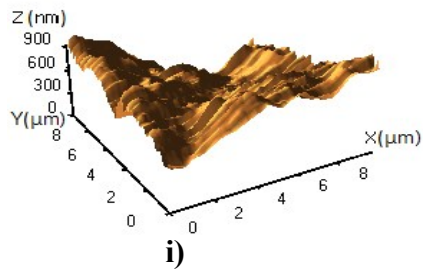
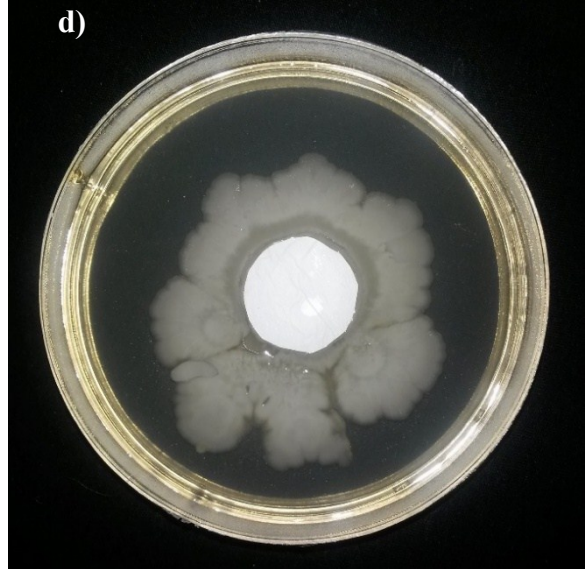
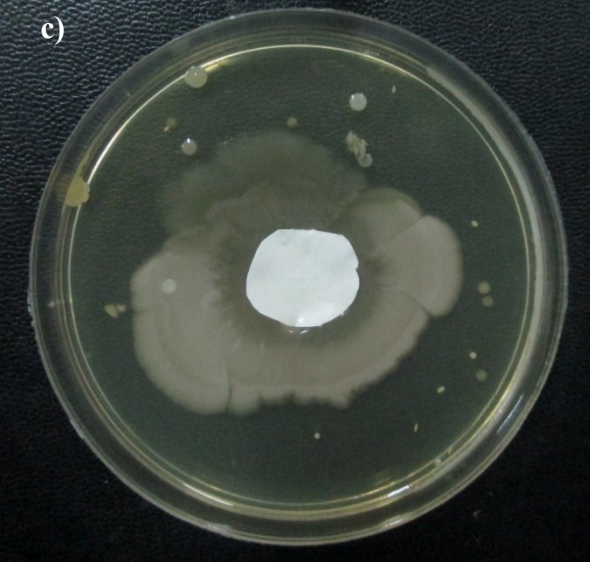
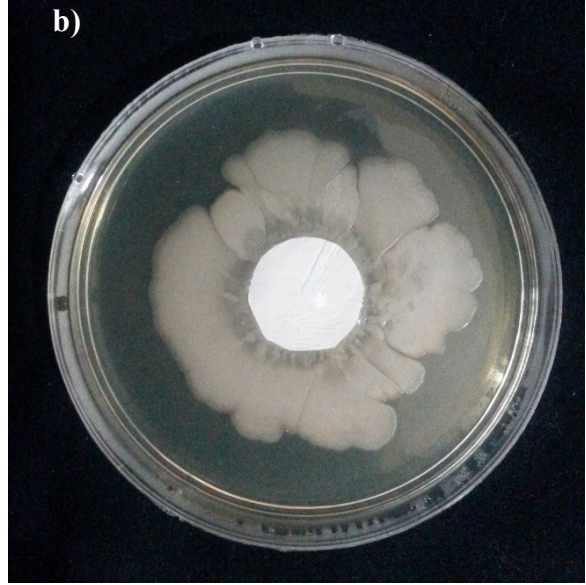
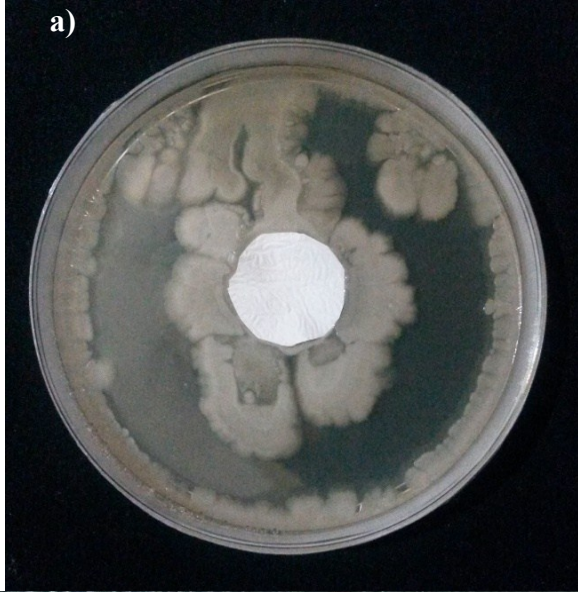


Fig. S1 The AFM images of the neat and silver coated PES membranes: a) M1, b) M11, c) M12, d) M13, e) M14, f) M15, g) M16, h) M17, i) M18 and j) M19.



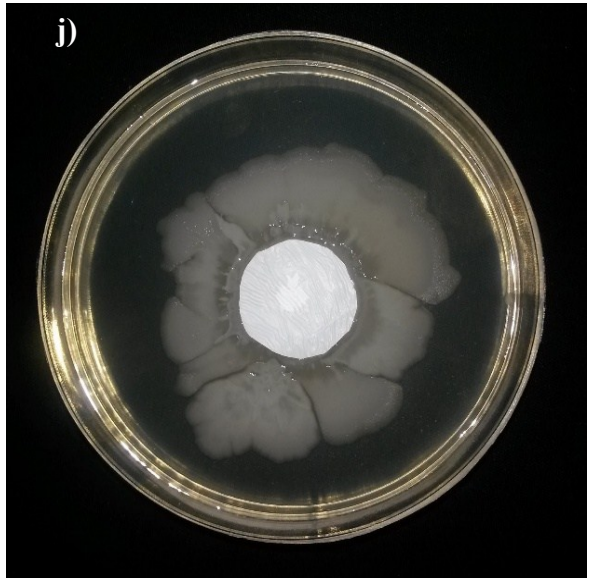
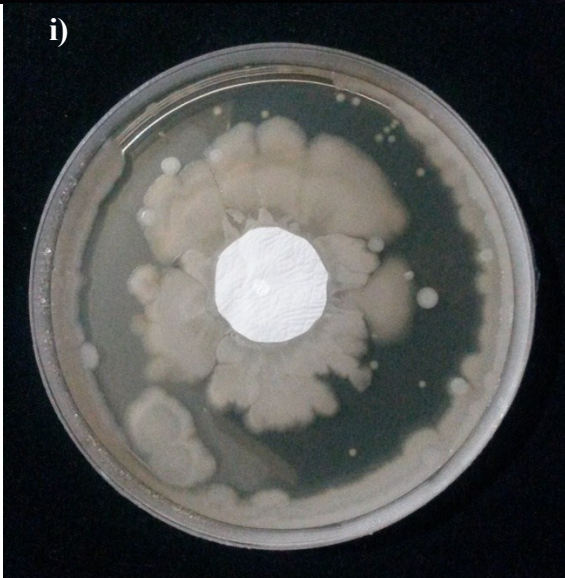
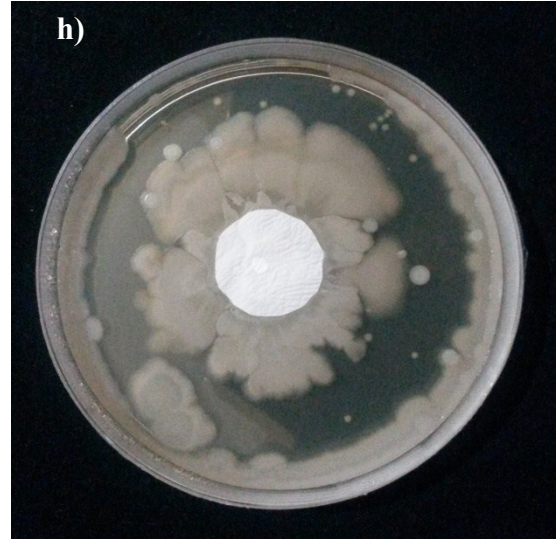
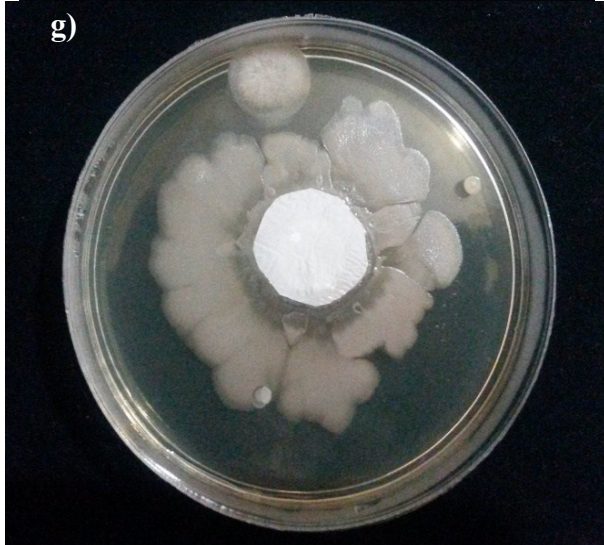
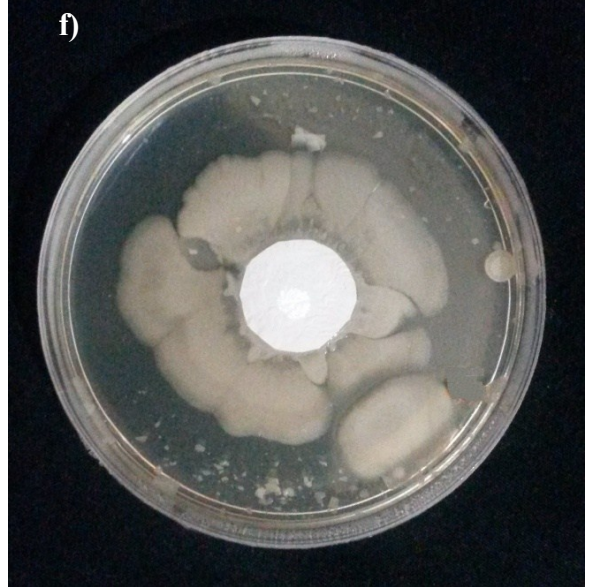
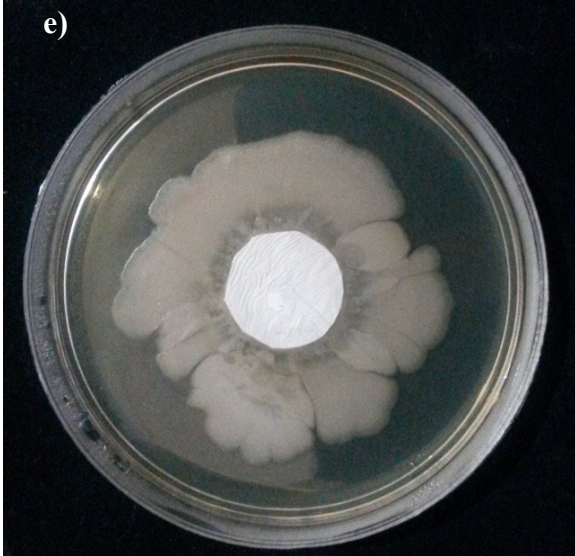


Fig. S2 Appearances of inhibitory zones of neat and silver coated membranes against *E. coli* and *S. aureus*: M1 (a) M11 (b) M12 (c) M13 (d) M14 (e) M15 (f) M16 (g) M17 (h) M18 (i) M19 (j).