**Preparation and Biological Characterization of Plasma Functionalized Poly(ethylene terephthalate) Antimicrobial Sutures**

Sadiya Anjuma\*, Amlan Guptab, Shanti Kumaria, Bhuvanesh Guptaa\*

aBioengineering Laboratory, Department of Textile Technology, Indian Institute of Technology, New Delhi-110016, India

bDepartment of Pathology, Sikkim Manipal Institute of Medical Sciences, Sikkim Manipal University, Gangtok-737102, India

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*Corresponding Authors

Tel.: +91-11-26591416

E-mail: bgupta@textile.iitd.ernet.in (B. Gupta); sadiya2203@gmail.com (S. Anjum)



**Figure S.1. (a)** EDX spectrum of pristine PET filament and (b) variation of the silver content with the carboxyl content.



**Figure S.2.** Variation of the tensile strength with the plasma exposure time.