

Supplementary material

An infection-responsive electrospun nanofibrous membrane with integrated colour change capability

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Supplementary material

Fig. S1: Photograph of FSES-based scalable manufacture of the electrospun double-layered nanofibrous membranes.

Fig. S2: The SEM morphology of FS electrospun PAA before crosslinking at magnification of 2000x.

Fig. S3: The SEM morphology of FS electrospun PAA before crosslinking at magnification of 10000x.

Fig. S4: The SEM morphology of FS electrospun PAA after crosslinking at magnification of 5000x.

Fig. S5: The SEM morphology of FS electrospun PAA after crosslinking at magnification of 10000x.

Fig. S6: The SEM morphology of FS electrospun PMMA-co-MAA at magnification of 500x.

Fig. S7: The SEM morphology of FS electrospun PMMA-co-MAA at magnification of 10000x.

Fig. S8: The response of BTB when immersed in different pH buffer solutions.

Fig. S9: The response of the hybrid nanofibrous membrane PAA^{*}(PMMA-co-MAA)10 to the increase of pH values at different buffer solutions, immediately after soaking.

Fig. S10: The response of the hybrid nanofibrous membrane PAA^{*}(PMMA-co-MAA)10 to the increase of pH values at different buffer solutions after two-hour incubation.

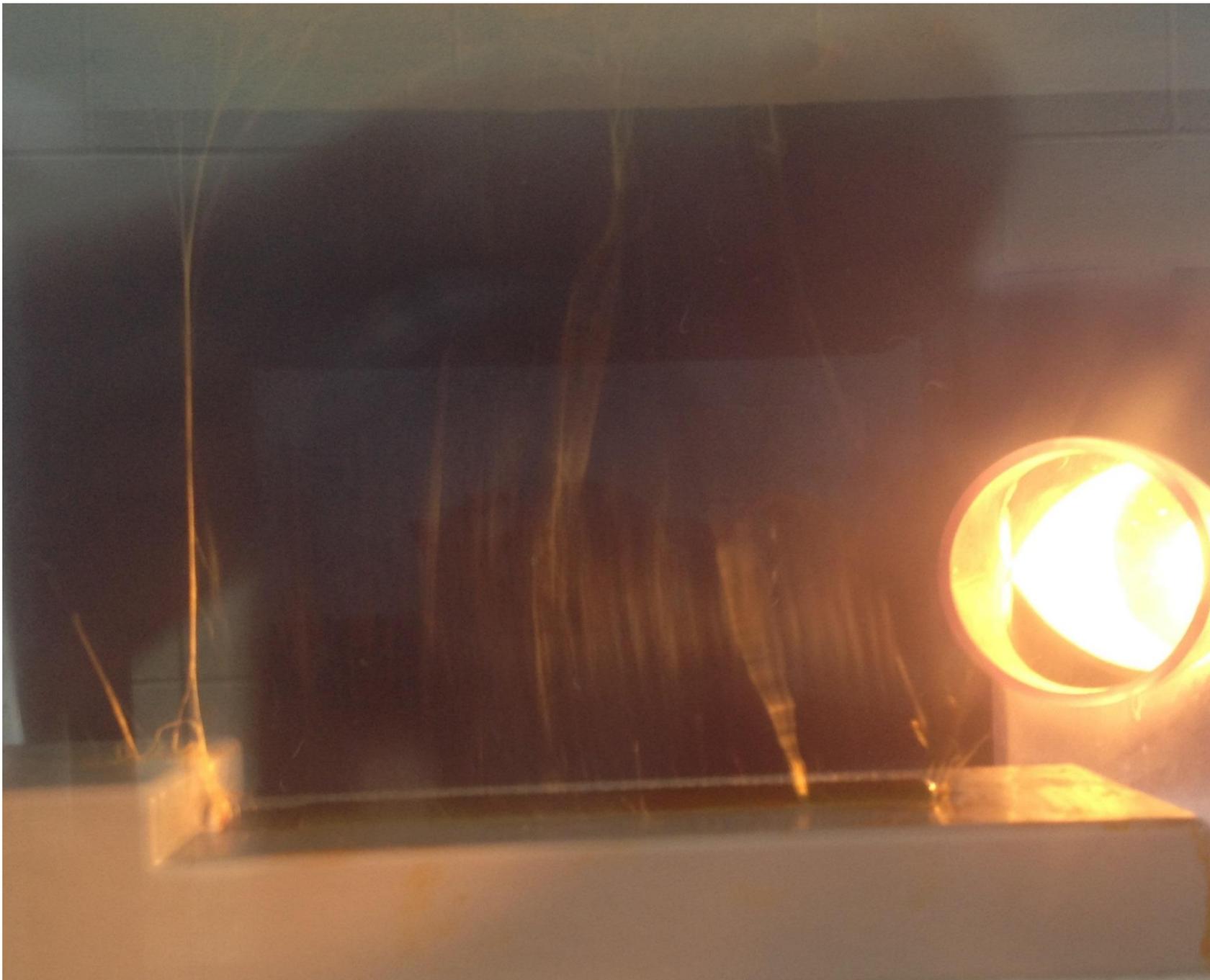


Fig. S1: Photograph of FSES-based scalable manufacture of the electrospun double-layered nanofibrous membranes.

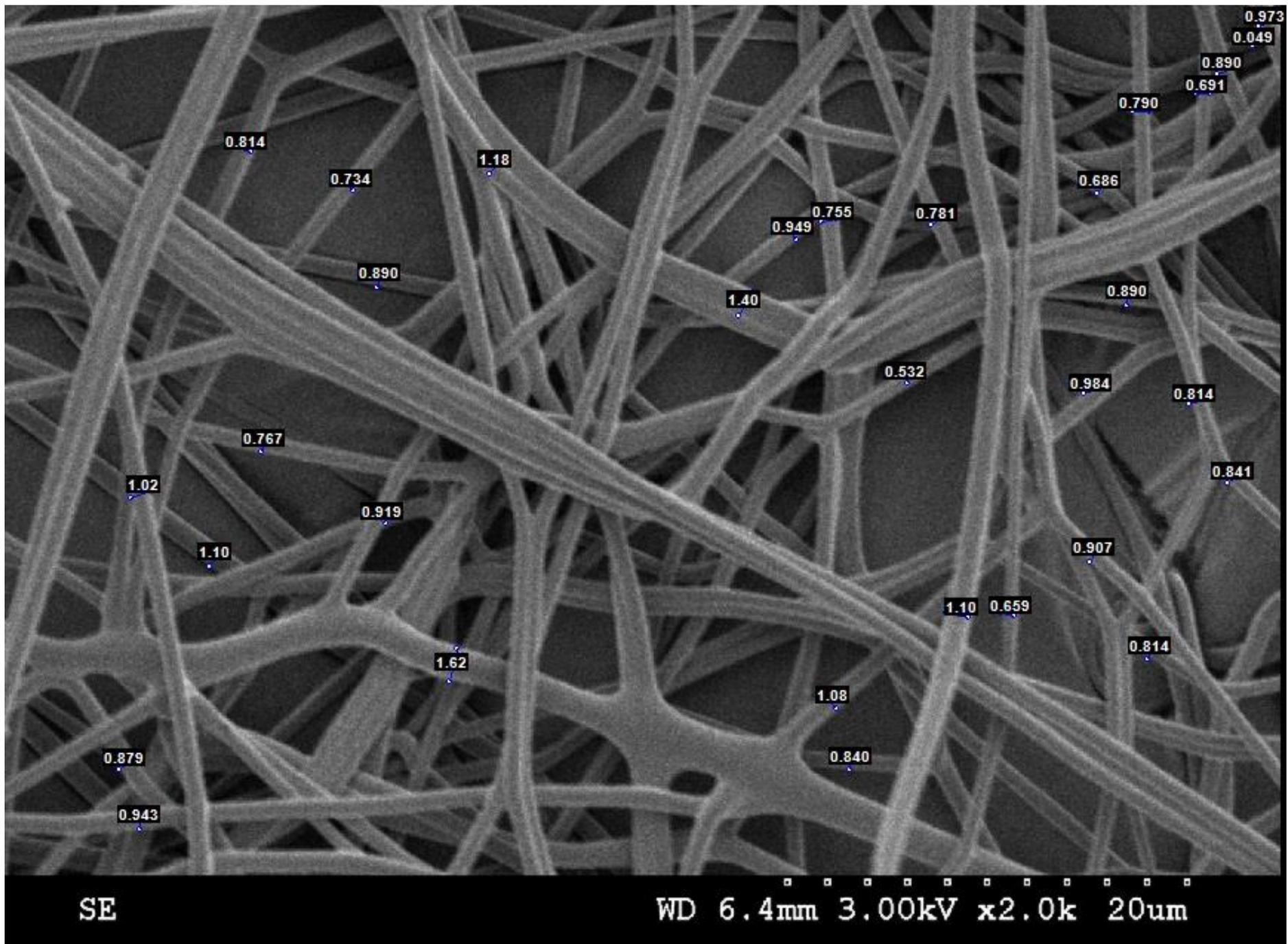


Fig. S2: The SEM morphology of FS electrospun PAA before crosslinking at magnification of 2000x.

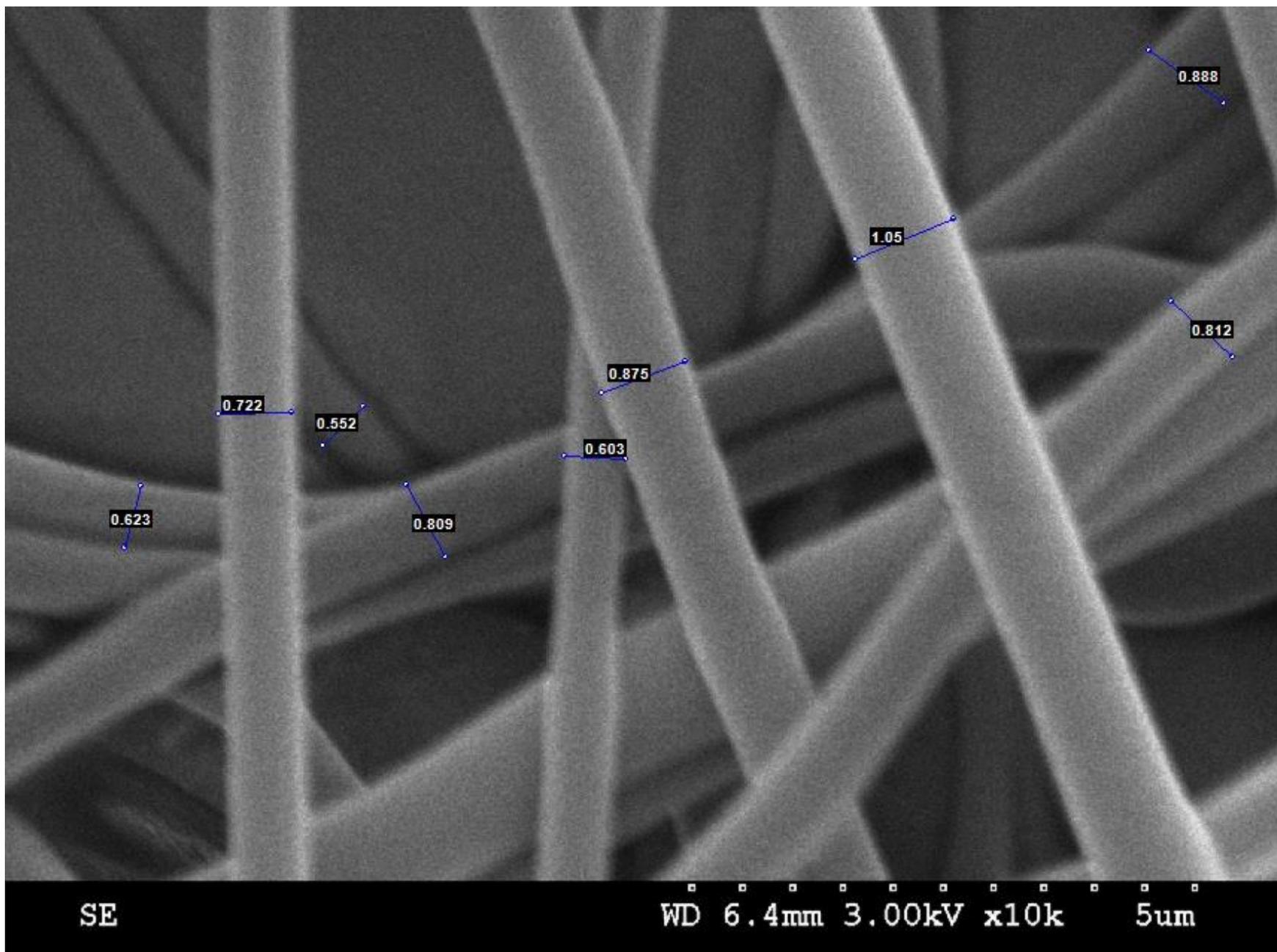


Fig. S3: The SEM morphology of FS electrospun PAA before crosslinking at magnification of 10000x.

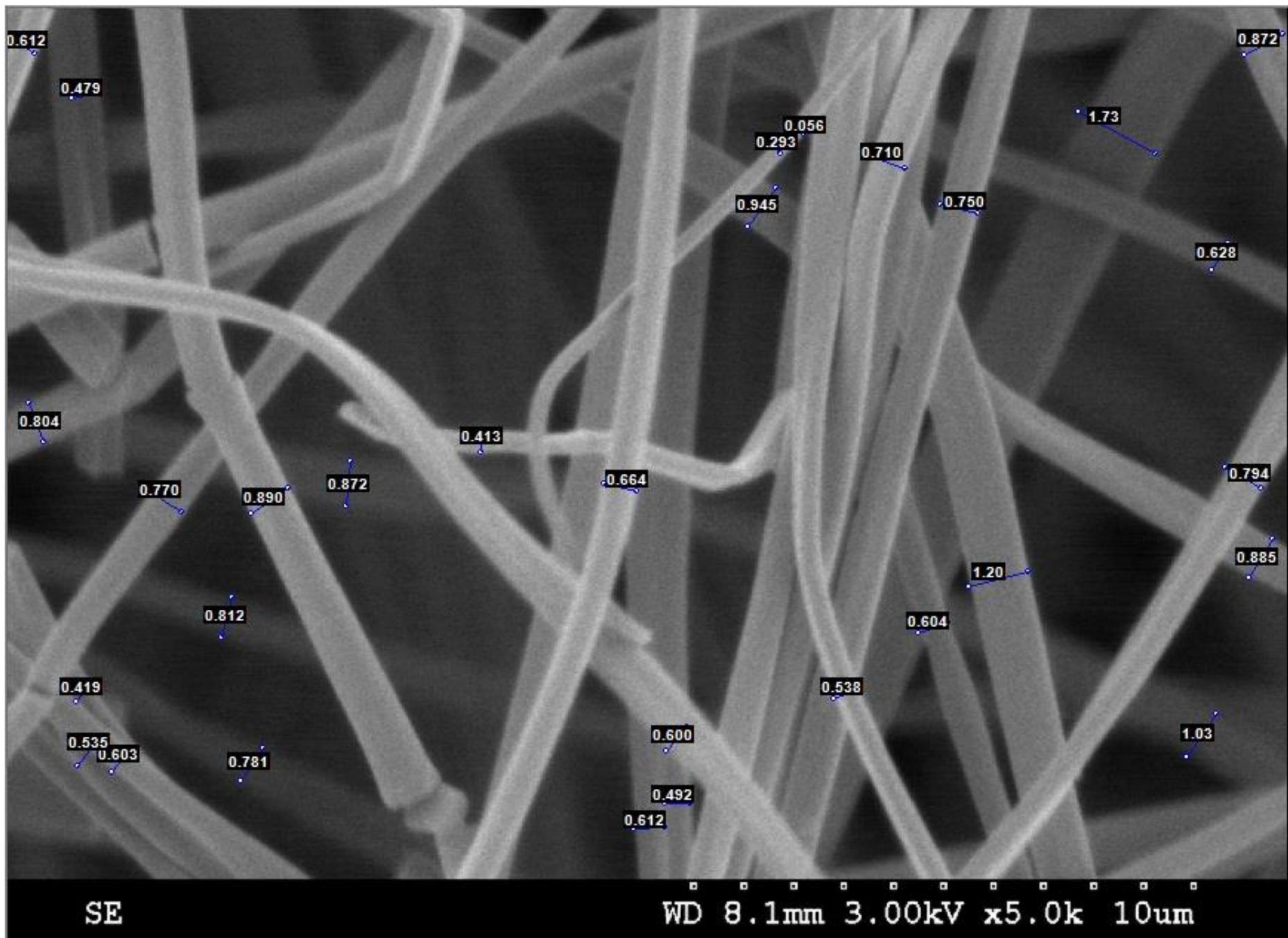


Fig. S4: The SEM morphology of FS electrospun PAA after crosslinking at magnification of 5000x.

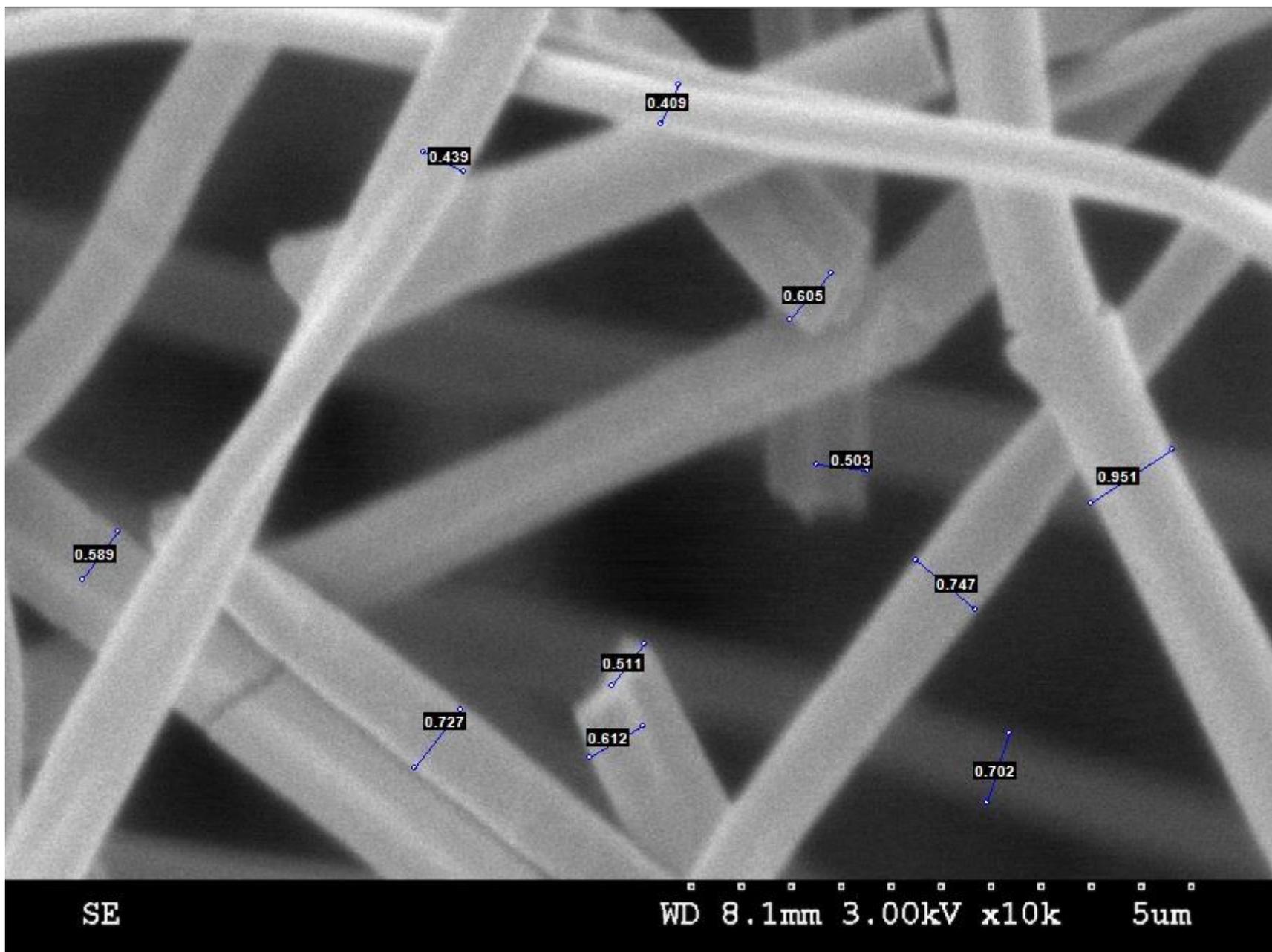


Fig. S5: The SEM morphology of FS electrospun PAA after crosslinking at magnification of 10000x.

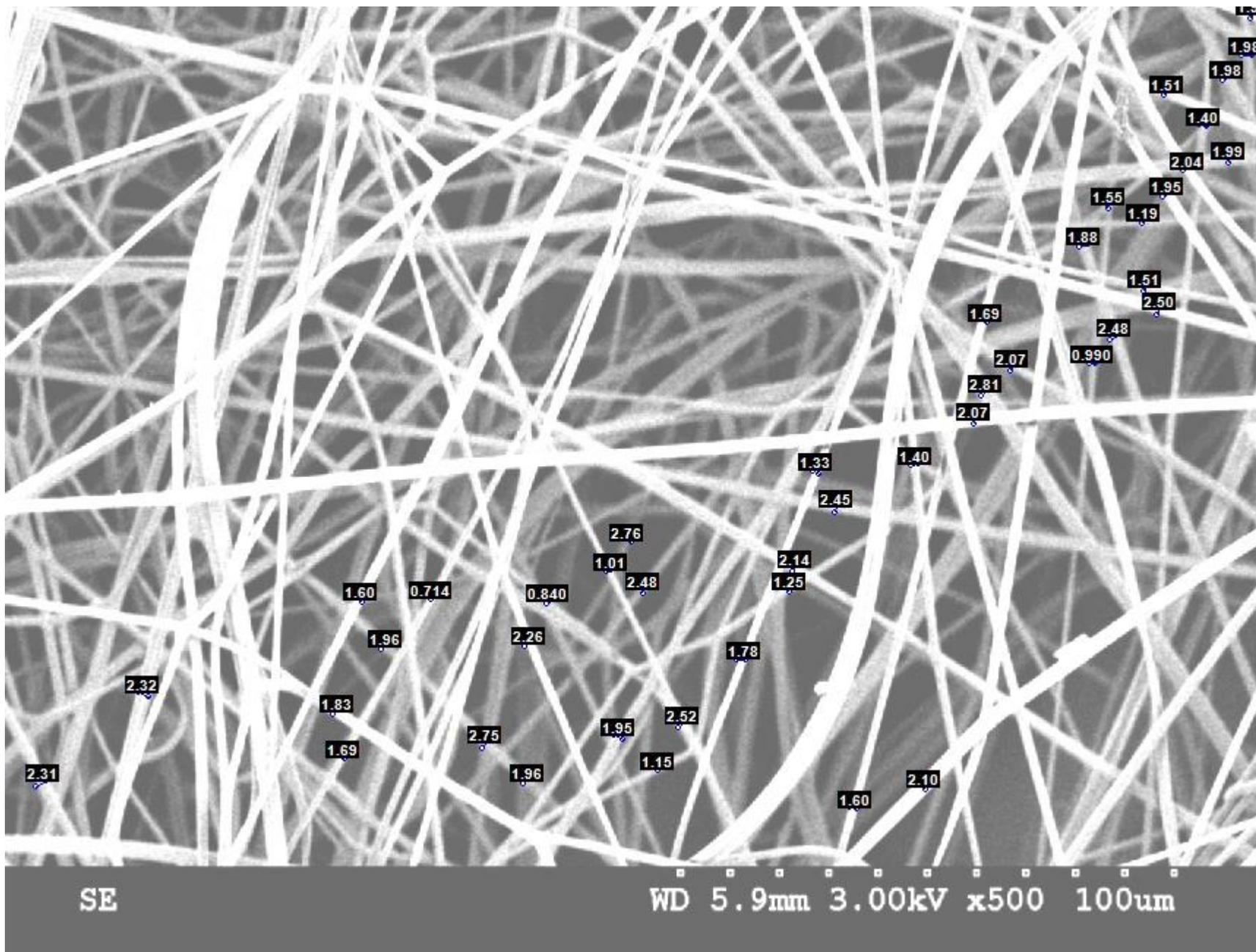


Fig. S6: The SEM morphology of FS electrospun PMMA-co-MAA at magnification of 500x.

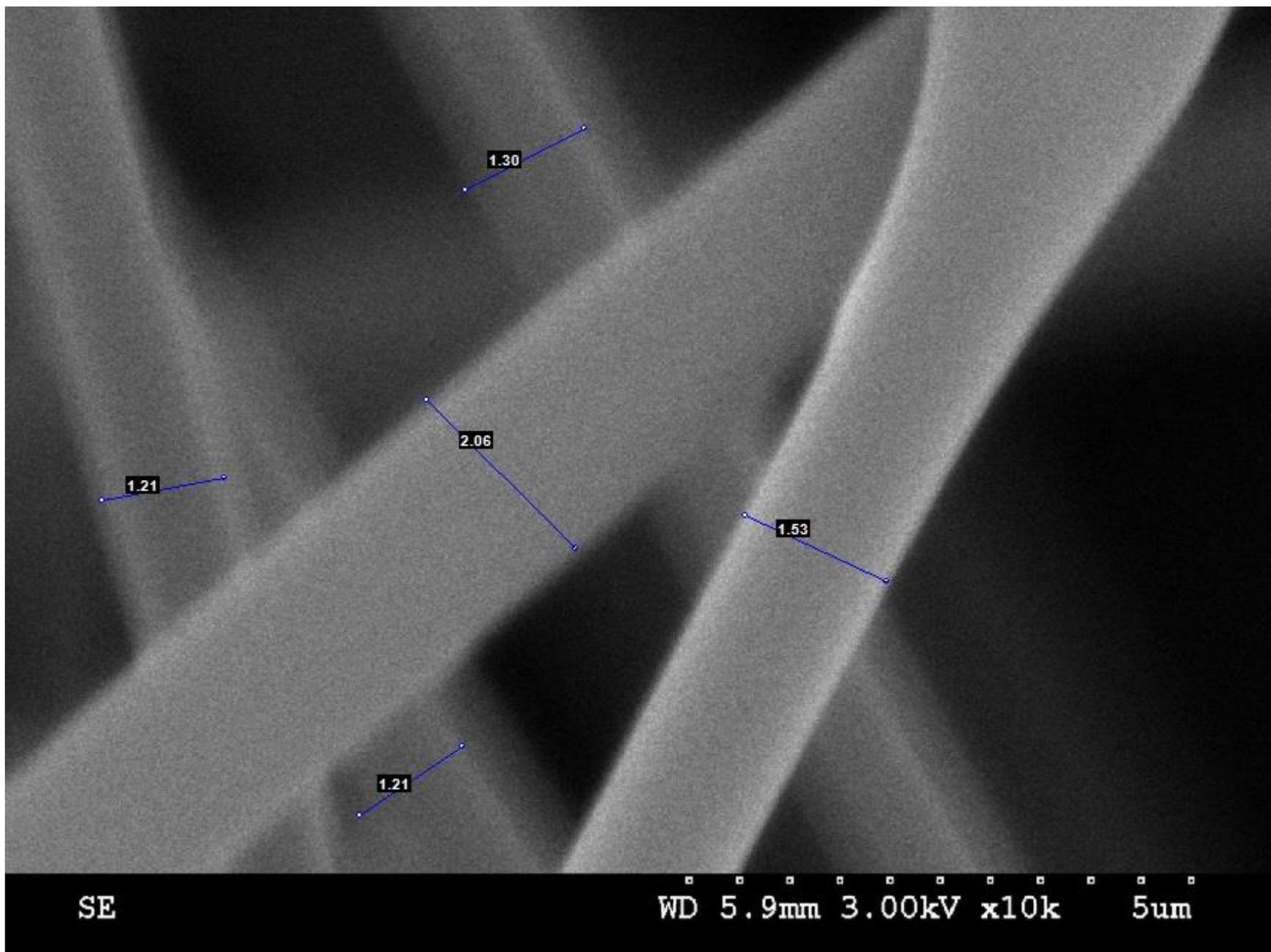


Fig. S7: The SEM morphology of FS electrospun PMMA-co-MAA at magnification of 10000x.

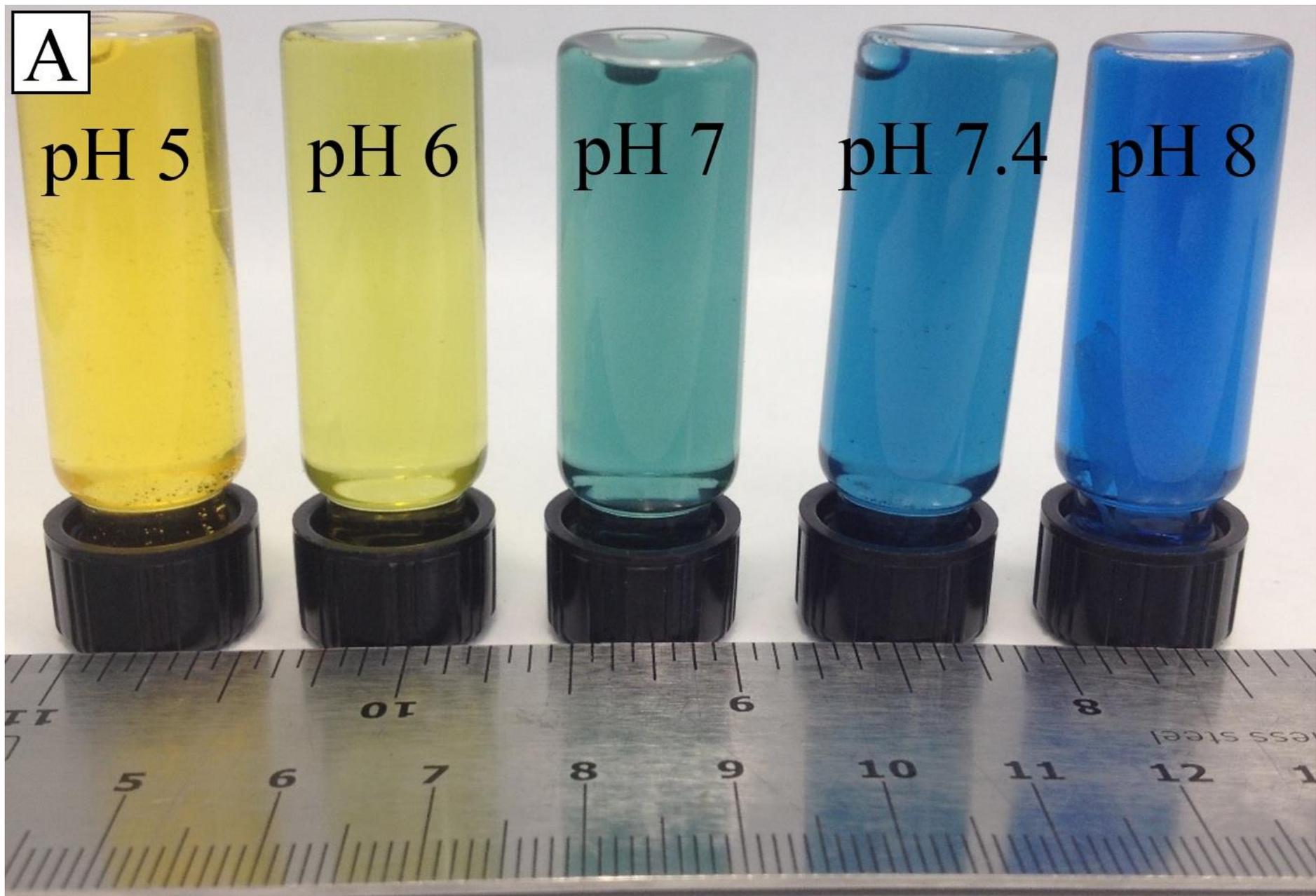


Fig. S8: The response of BTB when immersed in different pH buffer solutions.

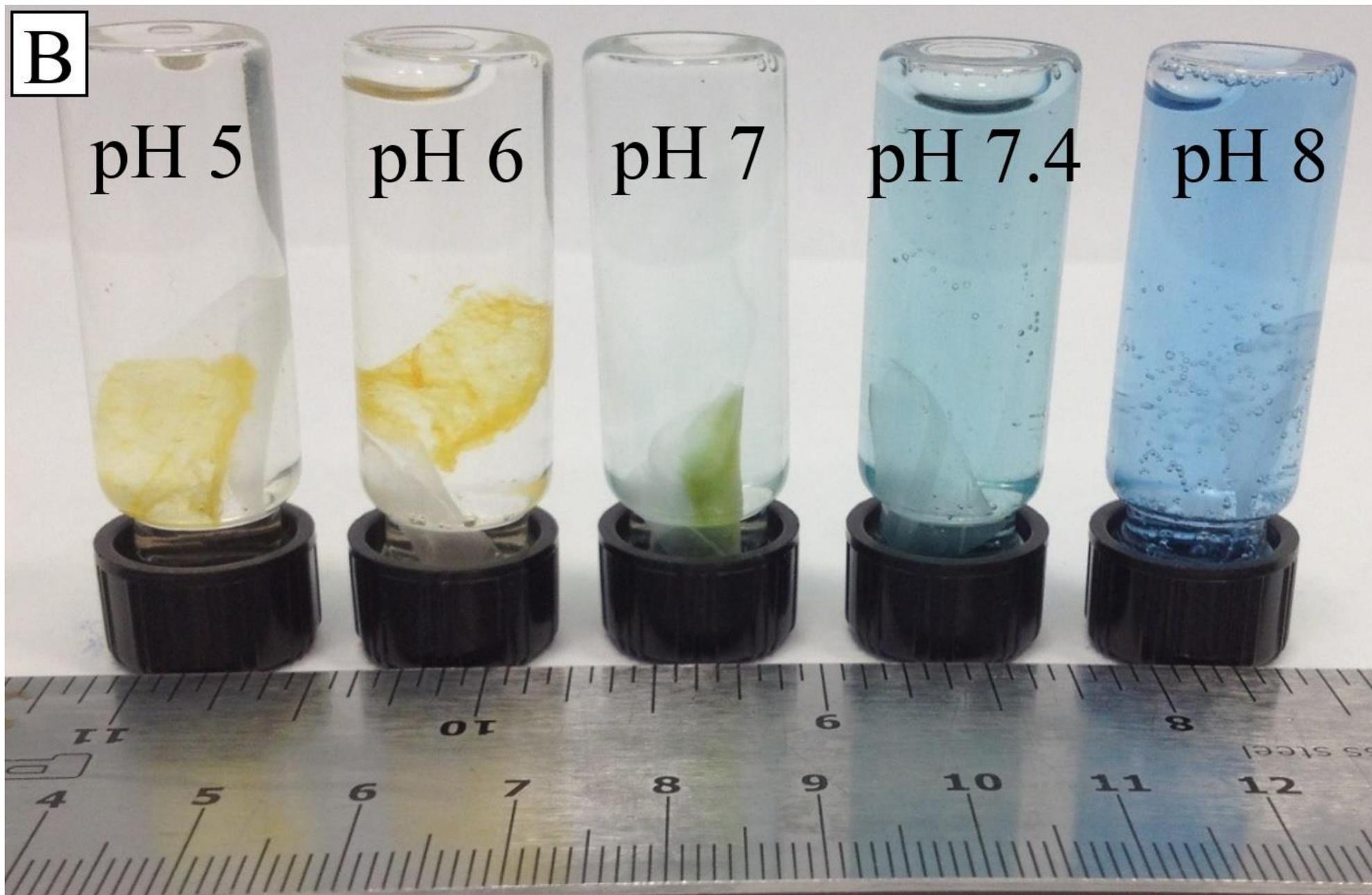


Fig. S9: The response of the hybrid nanofibrous membrane PAA^{*}(PMMA-co-MAA)10 to the increase of pH values at different buffer solutions, immediately following contact with incubation.

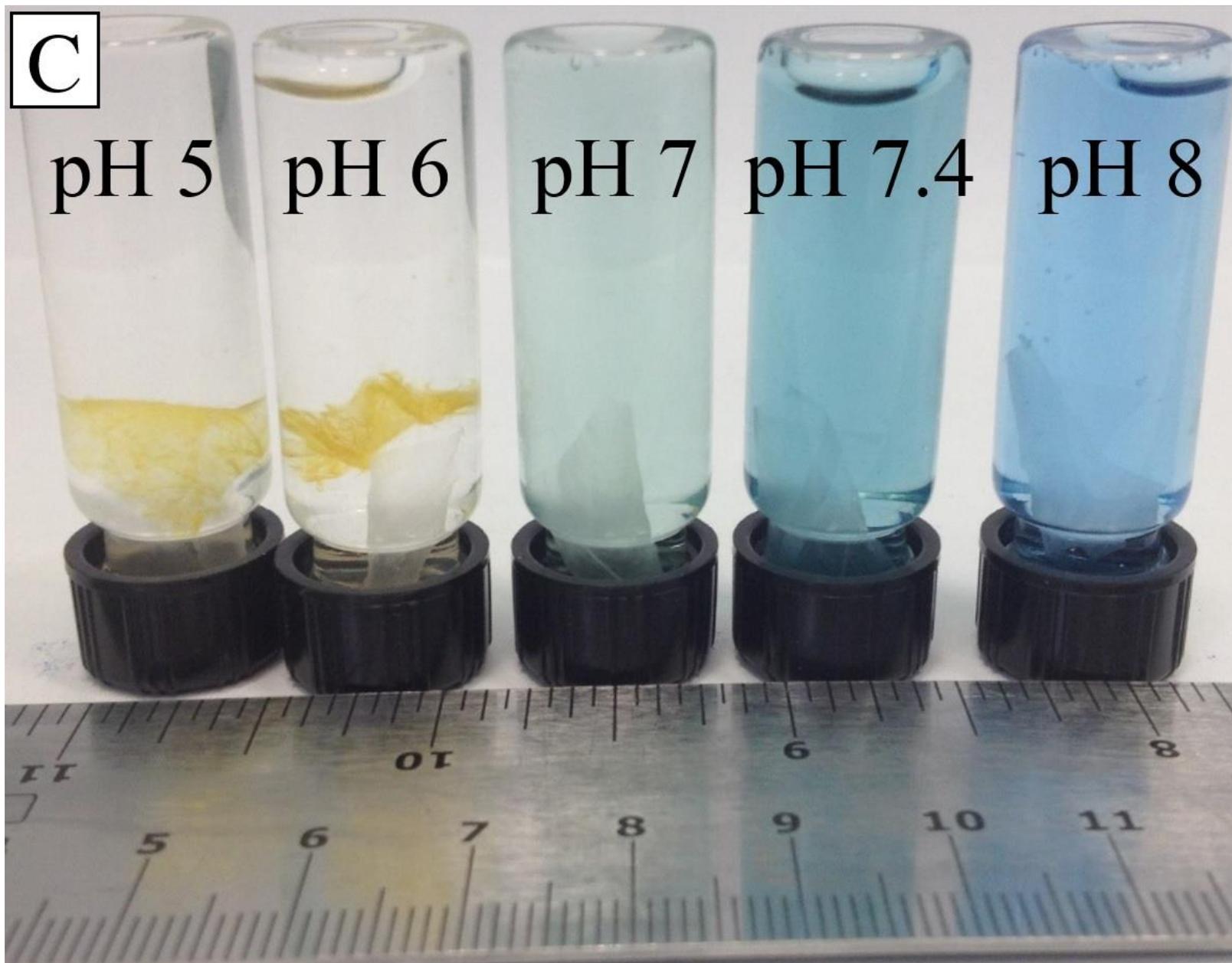


Fig. S10: The response of the hybrid nanofibrous membrane PAA*(PMMA-co-MAA)10 to the increase of pH values at different buffer solutions after two-hour incubation.