Supporting Information For

In situ assembly of graphene oxide quantum dot-based thin-film nanocomposite supported on de-mixed blends for desalination through forward osmosis.

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Synthesis of poly acrylic acid (PAA):

The PAA which was used to stitch the membranes prepared in the laboratory by using free radical polymerization technique. In brief, 20 mL acrylic acid monomer, 10 mg AIBN, and 50 mL THF was added in 100 mL round bottom flask and three freeze-pump-thaw cycles were performed to remove dissolved air in the solvent. The reaction mixture was then heated at 60 °C under an inert atmosphere for 4 h. Then the reaction mixture was cooled to obtained solid product.