

Pore size distribution

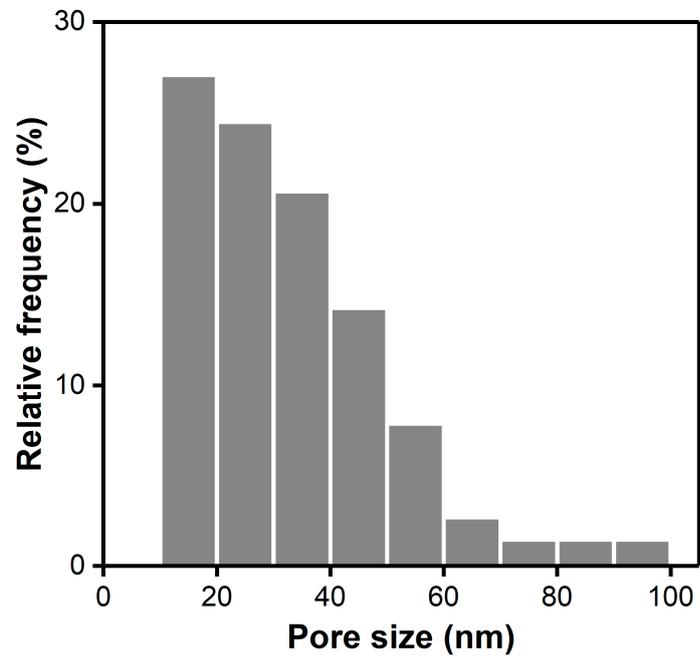


Figure S1. Pore size distribution of the UF membranes prepared in a coagulation bath with 0.1 M HCl using a 20% w/v PSaMA, 40% v/v acetic acid polymer casting solution. Pore sizes were analyzed using ImageJ software.

Molecular weight cut-off

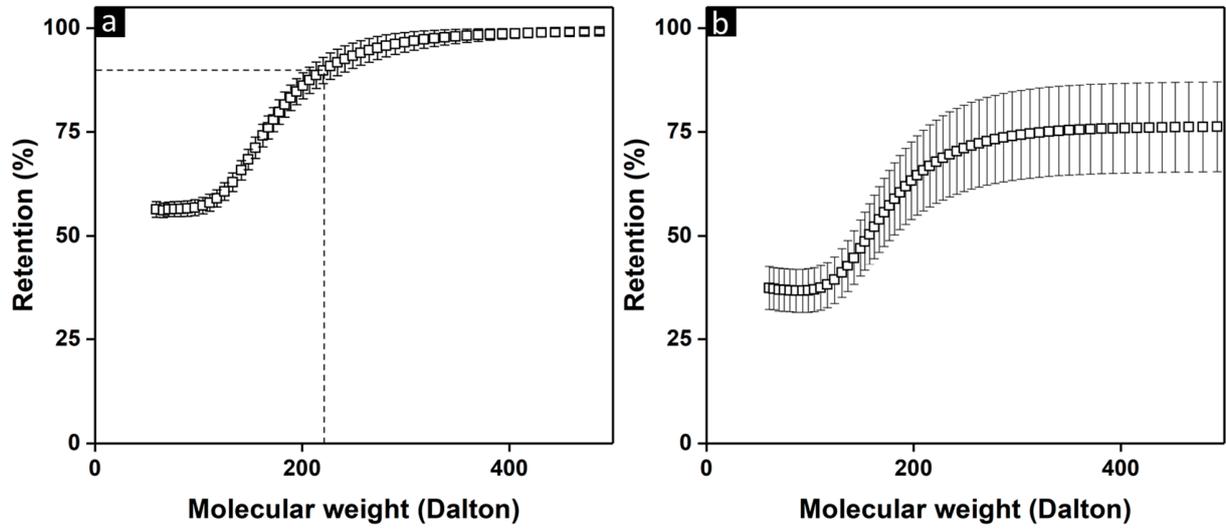


Figure S2. Molecular weight cut-off of the NF membranes prepared in a coagulation bath with 2.5 M H_3PO_4 using a 20% w/v P SaMA , 40% v/v acetic acid polymer casting solution before exposure to a pH 10 feed solution for 48 hours (a) and after (b).

SEM images

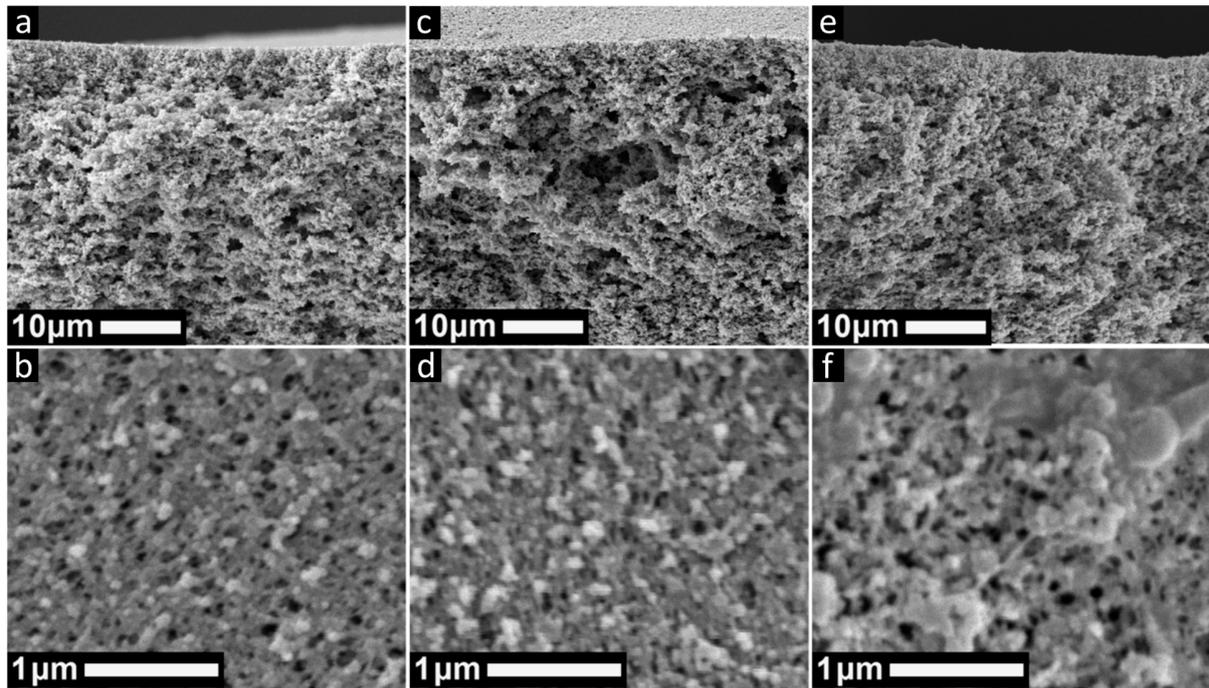


Figure S3. SEM cross section and top surface images of membranes prepared in a coagulation bath with 0.1 M HCl using a 20% w/v PSaMA, 40% v/v acetic acid polymer casting solution before (a,b), after (c,d) solvent filtration with IPA, toluene, and NMP, and after (e, f) filtration at different pH conditions for 7 days.