

Supplementary Materials: Biodegradable Preformed Particle Gel (PPG) Made of Natural Chitosan Material for Water Shut-Off Application

Reem Elaf ¹, Ahmed Ben Ali ¹, Mohammed Saad ^{1,2}, Ibnelwaleed A. Hussein ^{1,2,*}, Hassan Nimir ³ and Baojun Bai ⁴

¹ Gas Processing Center, College of Engineering, Qatar University, Doha P.O. Box 2713, Qatar

² Department of Chemical Engineering, College of Engineering, Qatar University, Doha P.O. Box 2713, Qatar

³ Department of Chemistry and Earth Sciences, College of Arts and Science, Qatar University, P.O. Box 2713, Doha, Qatar;

⁴ Department of Geosciences and Geological and Petroleum Engineering, Missouri University of Science and Technology, Rolla, MO 65409, USA

* Correspondence: ihussein@qu.edu.qa; Tel.: +974-4403-7694

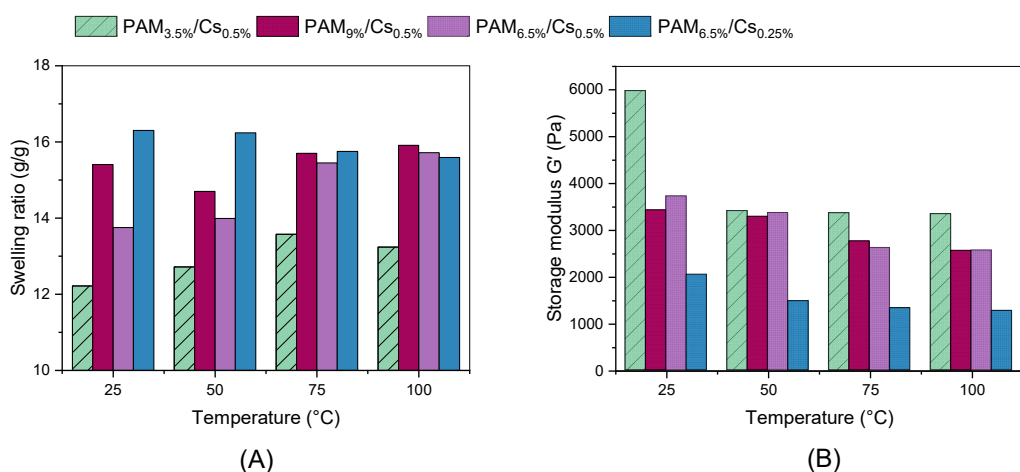


Figure S1. The (A) swelling ratio and (B) strength of PAM/Cs PPGs in the temperature range (25-100 °C) in HSW for 24 hours.

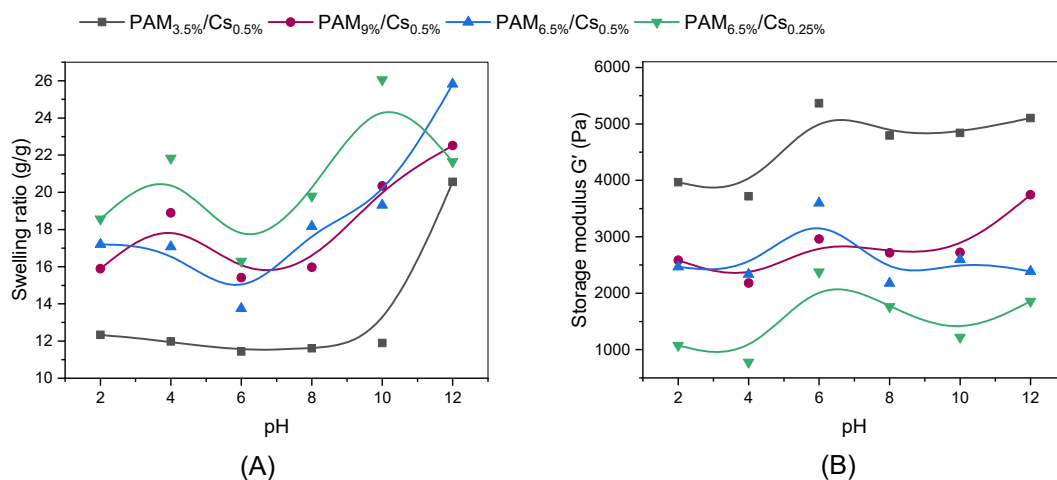


Figure S2. The effect of pH on the (A) swelling ratio and (B) strength of PAM/Cs PPGs in HSW for 24 hours.