

## Supporting Information

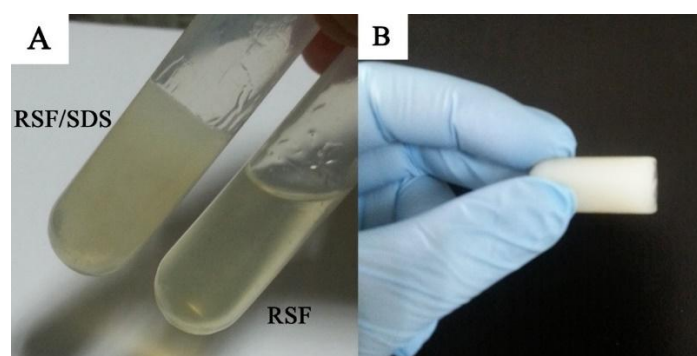
### **Robust Protein Hydrogels from Silkworm Silk**

*Zhao Li†, Zhaokun Zheng†, Yuhong Yang‡, Guangqiang Fang†, Jinrong Yao†,  
Zhengzhong Shao†, Xin Chen\*†*

†State Key Laboratory of Molecular Engineering of Polymers, Collaborative Innovation Center of Polymers and Polymer Composite Materials, Department of Macromolecular Science, Laboratory of Advanced Materials, Fudan University, Shanghai, 200433, People's Republic of China. E-mail: chenx@fudan.edu.cn

‡Research Centre for Analysis and Measurement, Fudan University, Shanghai 200433, People's Republic of China.

3 pages, 1 figure, and 2 tables



**Figure S1.** (A) Change of RSF/SDS mixed solution (left) and pure RSF solution (right) after heating in oven at 60 °C after a period of time, (B) final formed RSF/SDS hydrogel.

**Table S1.** Comparison of gelation time of RSF/SDS solutions

Samples	Gelation Time
10RSF-SDS-05	No gelation
10RSF-SDS-10	15 min
10RSF-SDS-15	Gelation during mixing
12.5RSF-SDS-05	No gelation
12.5RSF-SDS-10	2 h
12.5RSF-SDS-15	50 min
12.5RSF-SDS-20	30 min
15RSF-SDS-05	No gelation
15RSF-SDS-10	3 h
15RSF-SDS-15	70 min
15RSF-SDS-20	35 min

**Table S2.** Comparison of gelation time of other RSF/surfactant solutions

Samples	Gelation Time
15RSF-SDBS-05	No gelation
15RSF-SDBS-10	12 h
15RSF-SDBS-20	45 min
15RSF-Triton-10	No gelation
15RSF-Triton-20	4 h
15RSF-Triton-40	2 h
15RSF-Triton-80	40 min