

Supporting information for

Synthesis and characterization of quaternized agar in KOH/urea aqueous solution

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SEM characterization of quaternized agar

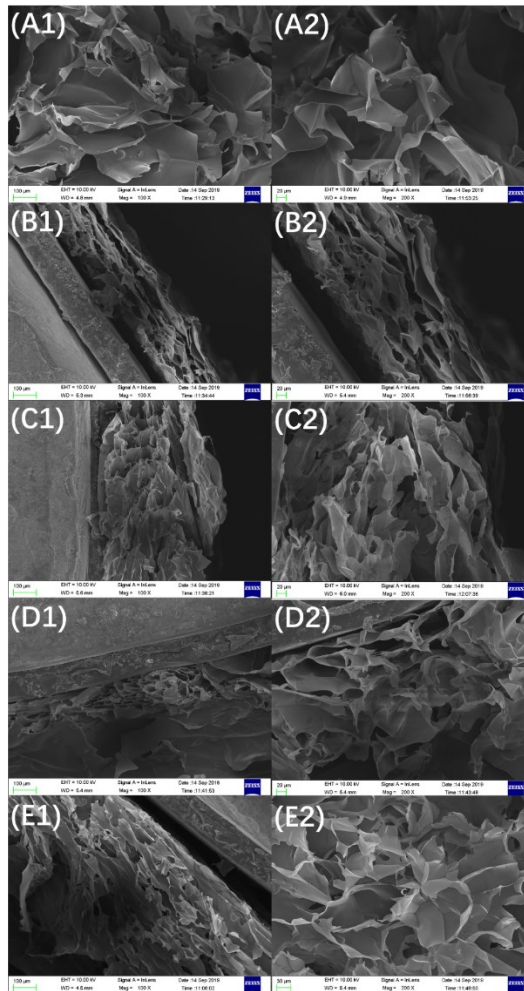


Fig. S1. SEM images of agar (A1, A2), QA1 (B1, B2), QA2 (C1, C2), QA3 (D1, D2) and QA4 (E1, E2).

Optical images of gelling and melting of quaternized agar

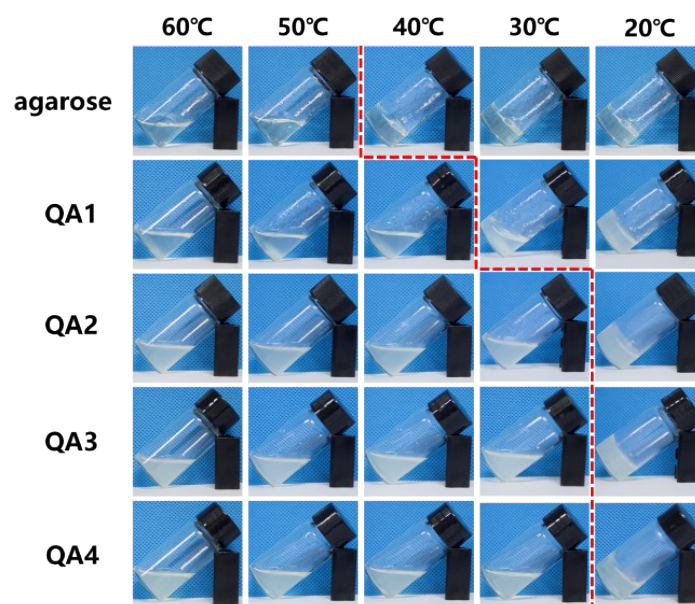


Fig. S2. Photographs of gelation of agar and QAs against different temperature.

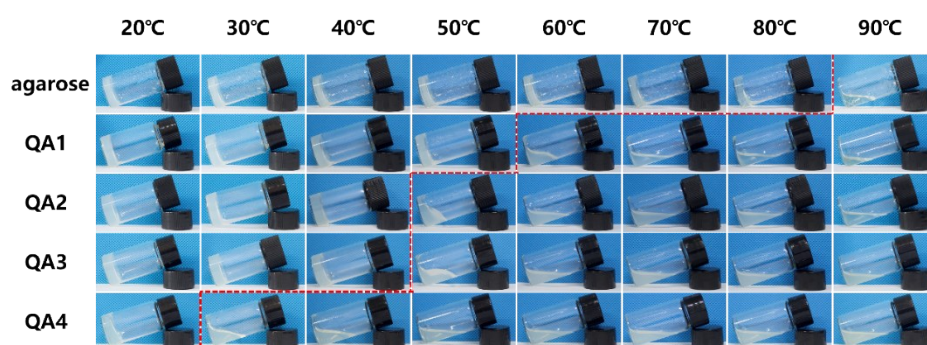


Fig. S3. Photographs of dissolution of agar and QAs against different temperature.

Table S1 The gelling and melting temperature of the samples

Sample ID	Melting temperature (°C)	Gelling temperature (°C)
QA1	65.5±1.8	32.9±1.0
QA2	61.8±1.1	31.5±0.5
QA3	58.7±1.5	30.6±0.4
QA4	52.8±0.8	24.5±0.6