

Table. S1. The gelation time of amorphous ACM under different condition. Data are mean \pm SD. (n=3, *** $p < 0.001$ vs 20°C in temperature effect experiments or vs 0.25 M in ionic strength effect experiments)

Under different conditions		Gelation time (s)
Temperature (°C)	20	6.53 \pm 0.14
	30	4.79 \pm 0.09***
	37	4.03 \pm 0.11***
	45	3.21 \pm 0.18***
pH values	1.2	5.45 \pm 0.20
	4.5	—
	6.8	—
	7.4	—
Ionic strength (M)	0.25	5.73 \pm 0.32
	0.5	6.31 \pm 0.17
	0.75	7.84 \pm 0.44***
	1.0	—

“—” referred to no gelation time