

Supporting Information

***Staphylococcus epidermidis* small basic protein (Sbp) forms amyloid fibrils, consistent with its function as a scaffolding protein in biofilms ***

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Table S1. The primer sequences for cloning of Sbp and Brpt1.5.

Primers	DNA sequences
Sbp-forward	5'CGTGCATATGGAGAATCTTTATTTTCAGGGCGGAAAC AACGTTGAAGCGGCAACTGG3'
Sbp-reverse	5'CGTGAAGCTTTTATTTATTTAAGTCTATACGATATAA CTTCACATTTTATCTTTTGGTG3'
Brpt1.5-forward	5'CGTGCATATGGAGAATCTTTATTTTCAGGGCGTTGAT GGAGATTCGATTACGTCAACG3'
Brpt1.5-reverse	5'GCGTGGATCCTTATGGACCATACTCAACAATTCGTC AACAGG3'

Table S2. Basic structural parameters for Sbp in the lag phase of fibrillation at different time points.

Time (hr)	^a R _g (Å)	^b R _g (Å)	D _{max} (Å)	^c MW (kD)	^d MW (kD)
0.4	29.9±0.8	31.2±0.2	113±2	17.7	25.2
1.0	31.9±1.3	33.1±0.3	123±2		27.8
1.2	33.1±1.0	35.9±0.2	128±2		27.9
2.0	35.0±2.2	36.4±1.3	154±2		29.1

^aR_g derived from Guinier fitting;

^bR_g derived from GNOM analysis;

^cMW was calculated from the primary sequences of protein;

^dMW was calculated using the web portal “SAXS MoW” (www.if.sc.usp.br/~SAXS).

Figure legend

Supplemental Figure S1. Size exclusion chromatography profile of Sbp recorded at double wavelength of 280 nm (black) and 260 (red) nm at 20 mM Tris-HCl, 100 mM KCl, pH 7.2. The inset is the SDS-PAGE gel of Sbp fractions.

Supplemental Figure S2. 2D ^1H - ^{15}N HSQC of rSbp in buffer containing 20 mM K_2HPO_4 , 100 mM KCl, pH 7.20 at 5 °C (**A**) and 37 °C (**B**), in buffer containing 20 mM K_2HPO_4 , 300 mM KCl, pH 7.20 at 15 °C (**C**), buffer containing 20 mM K_2HPO_4 , 400 mM KCl, pH 7.20 at 15 °C (**D**).

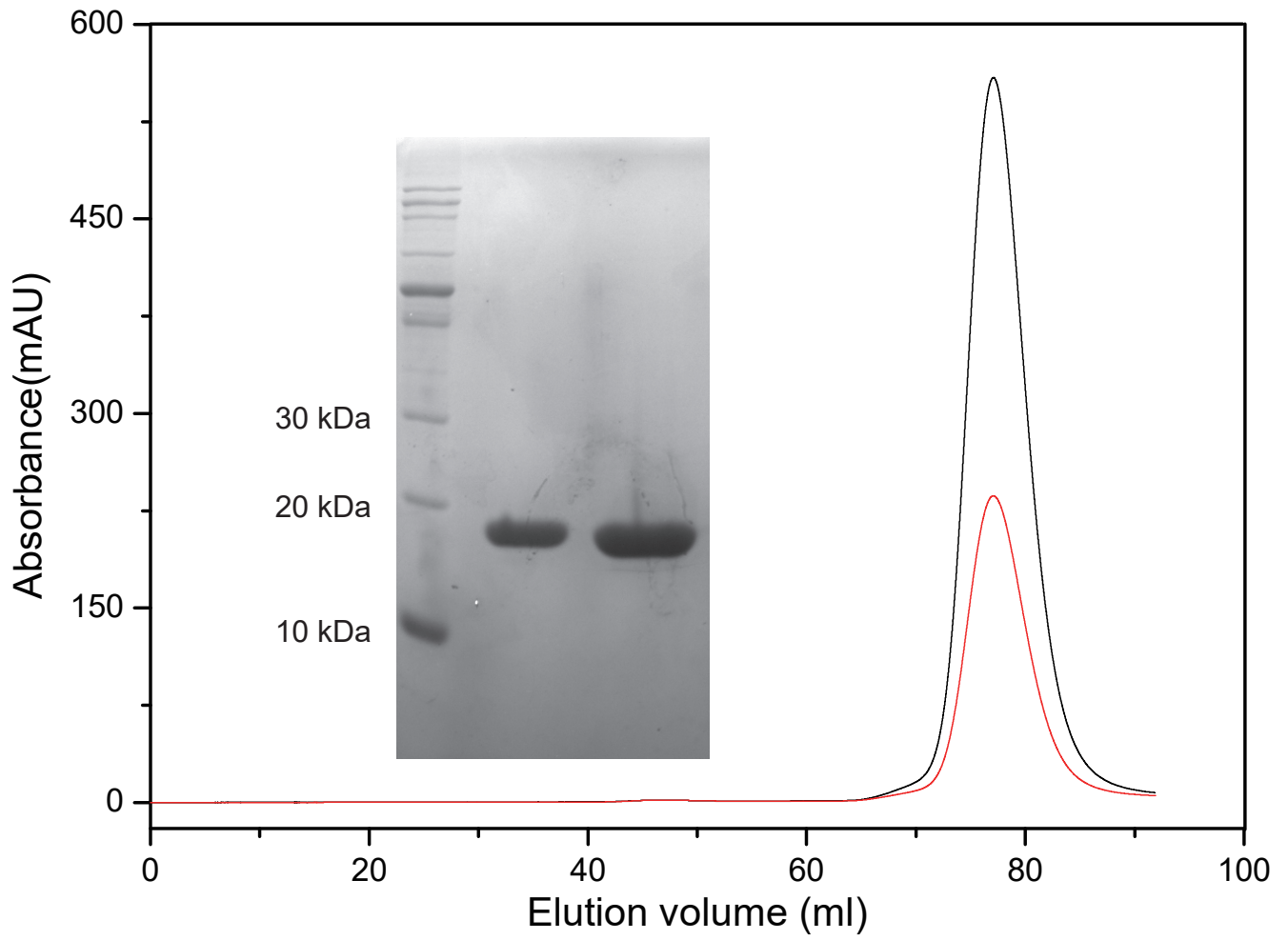


Figure S1

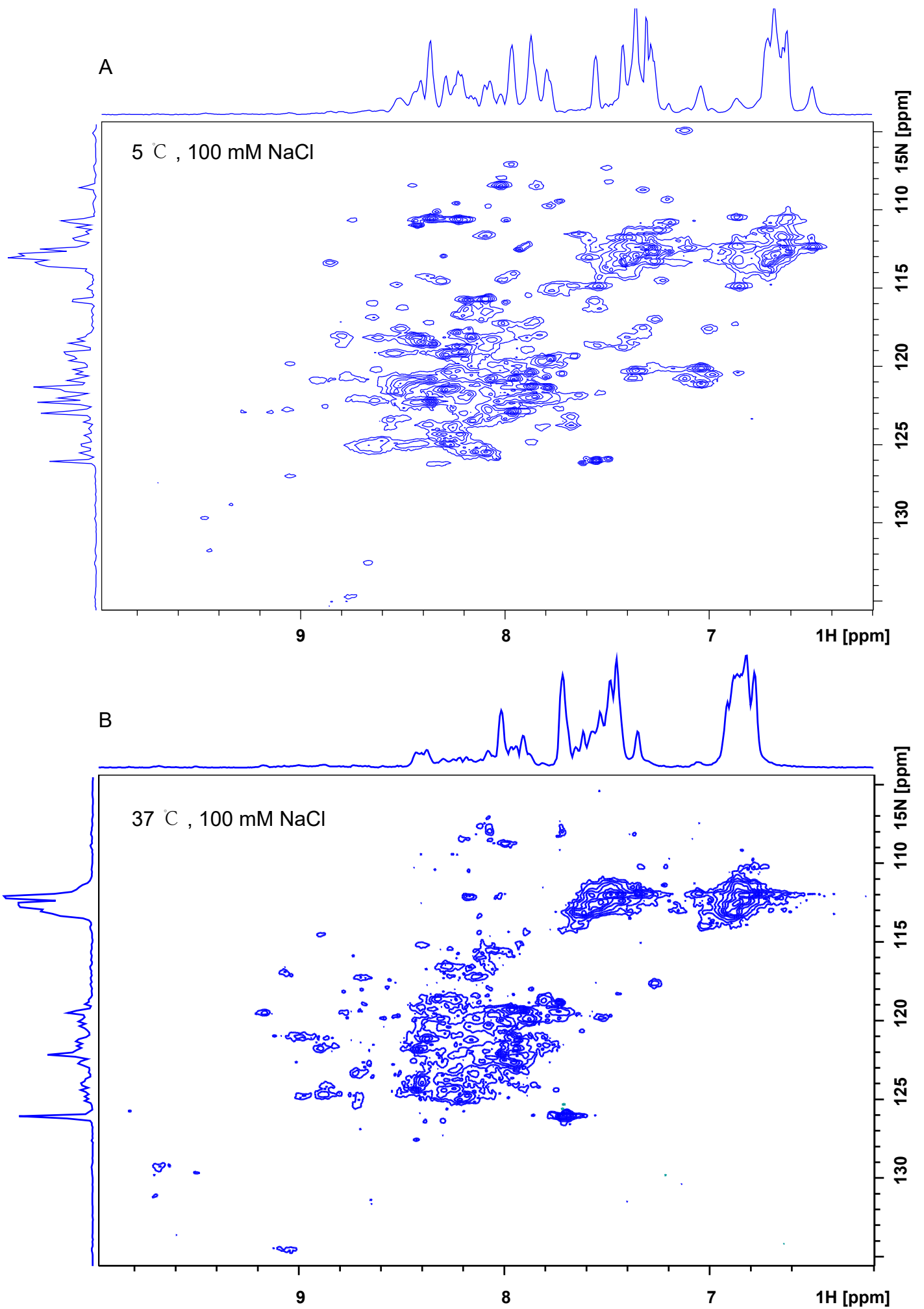


Figure S2.A-B

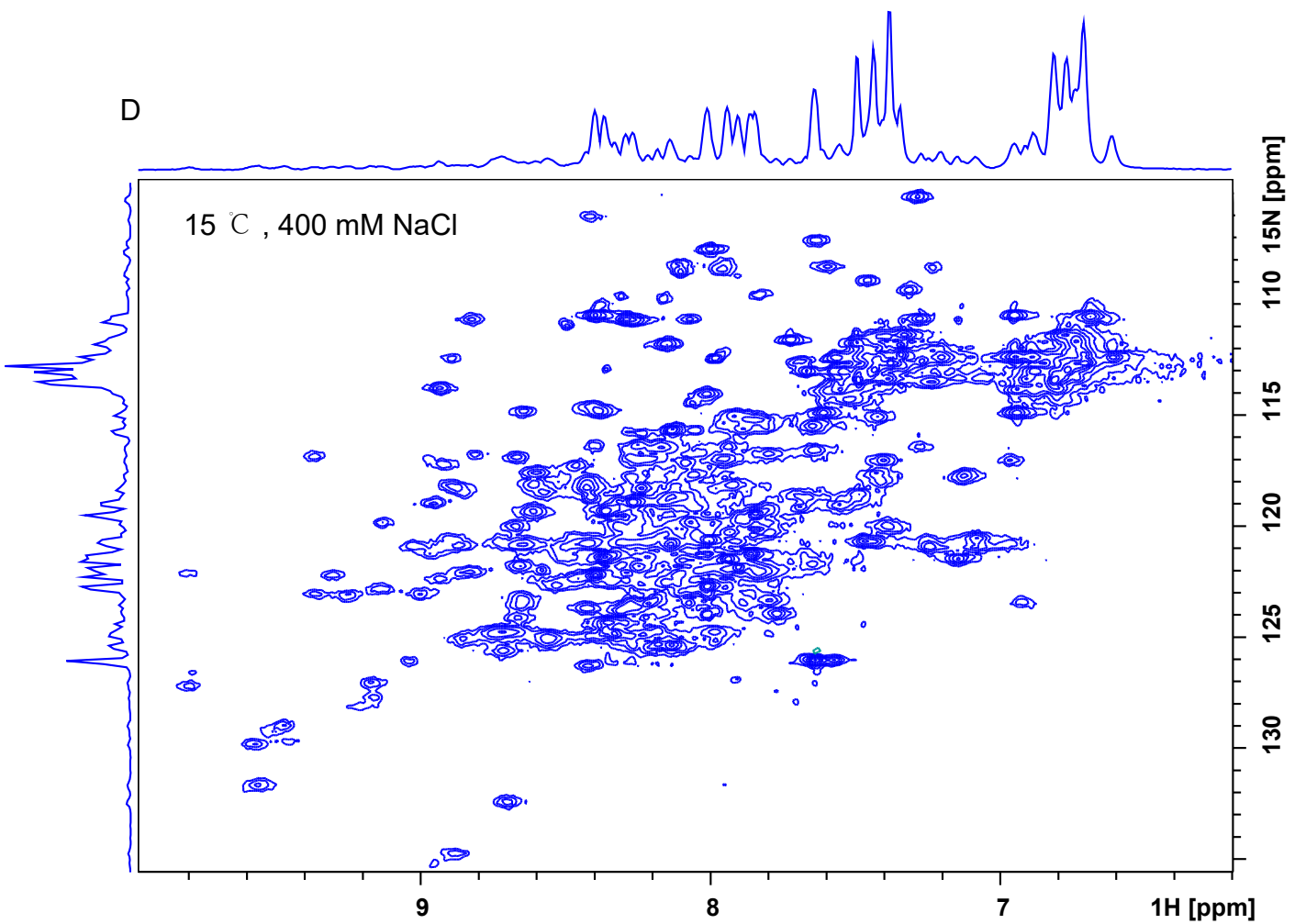
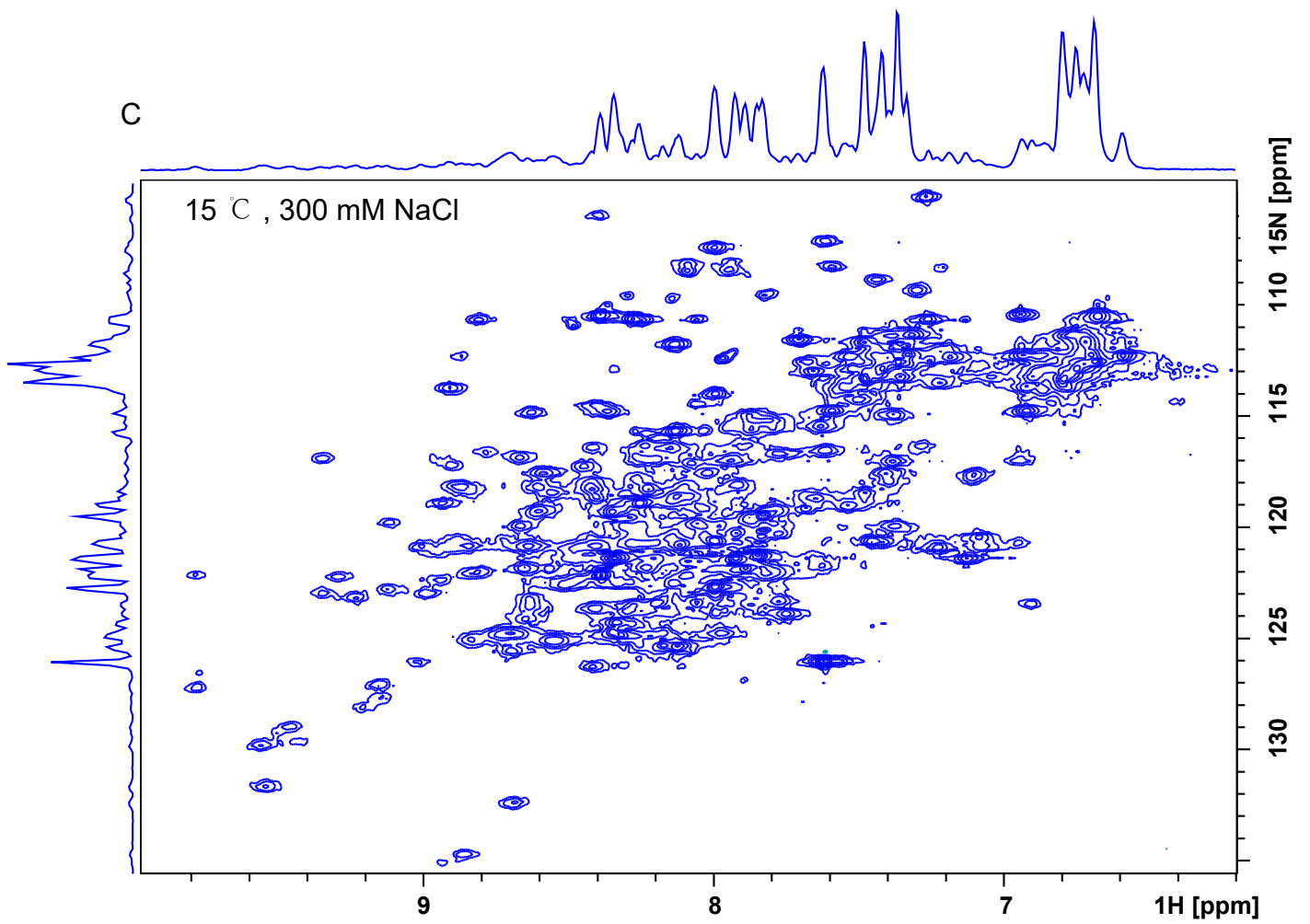


Figure S2.C-D