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Mechanical Properties of Amyloid-like Fibrils Defined by Secondary Structures fibrils

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Supporting Information

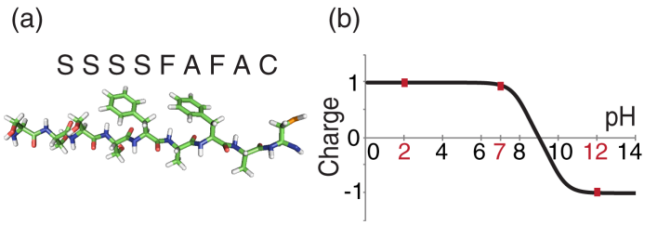

Fig. S1. Peptide molecular model (a) and charge chart (b).

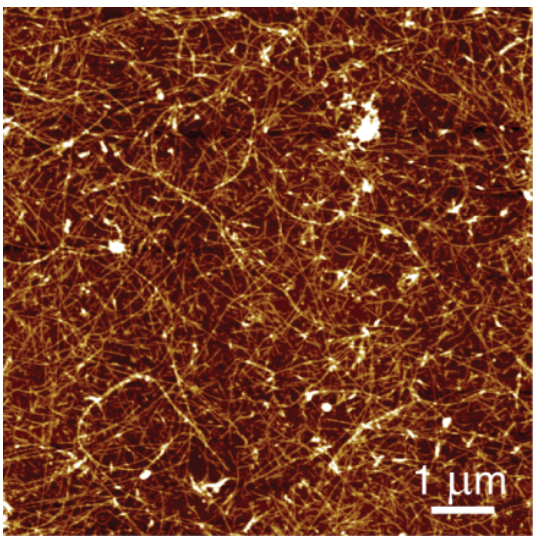

Fig. S2. AFM image showing fibrils obtained by incubating the peptide at pH 4.

Table S1. Synchrotron Radiation Circular Dichroism (SR-CD) secondary structure contents predicted by using Dichroweb[47, 48] a) Table showing the global results obtained for three different pH values analysed. b) Summary table indicating the percentages of secondary structures' content.

a)	α-helix ordered	α-helix distorted	β-sheet ordered	β-sheet distorted	Turns	Random Coil
pH 2	-0.02	0.02	0.37	0.18	0.07	0.38
pH 4	0.36	0.07	0.18	0.13	0.07	0.17
pH 7	0.36	0.07	0.20	0.13	0.05	0.18

b)	α-helix (total)	β-sheet (total)	Turns	Random Coil
pH 2	0%	55%	7%	38%
pH 4	43%	31%	7%	17%
pH 7	43%	33%	5%	18%