

Supporting information:

Figure S1

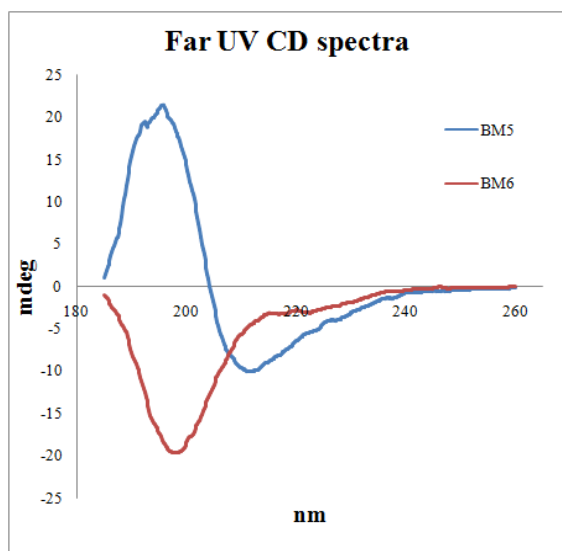


Figure S1: Comparison of Far UV CD spectra of BM5 and BM6 captured 20 minutes after dilution. BM5 displayed the spectral features of β -sheet structures while BM6 showed a pattern of mainly unordered aggregates.

Table S1

| DAY 1 | | | | | DAY 7 | | | | |
|-------|------------|--------------|--------------|----------------|-------|--------------|--------------|----------------|----------------|
| SAP | FIBER TYPE | WIDTH (nm) | HEIGHT (nm) | PITCH (nm) | SAP | FIBER TYPE | WIDTH (nm) | HEIGHT (nm) | PITCH (nm) |
| BM1 | A) | 17.72 ± 0.74 | 2.50 ± 0.10 | | BM1 | A) | 18.76 ± 0.91 | 2.20 ± 0.14 | |
| | B) | 30.27 ± 0.98 | 2.46 ± 0.14 | | | B) | 30.57 ± 0.97 | 2.47 ± 0.14 | |
| | C) | 39.40 ± 1.19 | 2.63 ± 0.23 | | | C) | 41.15 ± 1.33 | 2.53 ± 0.16 | |
| BM2 | A) | 18.28 ± 0.92 | 2.12 ± 0.14 | | BM2 | A) | 18.15 ± 0.75 | 2.14 ± 0.10 | |
| | B) | 18.44 ± 0.83 | 3.63 ± 0.10 | | | C) | 29.31 ± 0.91 | 2.58 ± 0.12 | |
| | C) | 29.32 ± 1.08 | 3.71 ± 0.11 | | | D) | 30.23 ± 0.57 | 4.67 ± 0.11 | |
| | | | | B) | | 17.33 ± 0.76 | 3.94 ± 0.13 | | |
| BM3 | A) | 8.06 ± 0.73 | 2.53 ± 0.43 | | BM3 | D)* | 28.51 ± 1.24 | 4.12 ± 0.23 | 123.37 ± 10.98 |
| | B) | 16.84 ± 0.79 | 3.75 ± 0.40 | | | | 29.75 ± 1.13 | 6.31 ± 0.31 | |
| | C) | 28.47 ± 1.10 | 4.11 ± 0.36 | | | | | | |
| BM4 | A) | 8.81 ± 0.43 | 1.97 ± 0.15 | | BM4 | B) | 18.59 ± 1.44 | 2.63 ± 0.09 | |
| | B) | 16.60 ± 0.57 | 2.81 ± 0.30 | | | C) | 32.91 ± 1.08 | 2.94 ± 0.12 | |
| | C) | 30.17 ± 1.10 | 3.21 ± 0.27 | | | D) | 49.66 ± 1.02 | 3.38 ± 0.18 | |
| | D) | 46.08 ± 1.54 | 3.69 ± 0.26 | | | E) | 77.36 ± 3.18 | 2.90 ± 0.18 | |
| | E) | 76.25 ± 1.59 | 3.14 ± 0.19 | | | | | | |
| BM5 | A) | 16.62 ± 1.09 | 2.46 ± 0.23 | | BM5 | E)* | 16.88 ± 0.59 | 6.70 ± 0.15 | 114.54 ± 10.61 |
| | B) | 16.31 ± 0.59 | 4.42 ± 0.20 | | | | 17.33 ± 0.68 | 4.30 ± 0.17 | |
| | C) | 31.48 ± 1.50 | 4.05 ± 0.21 | | | B) | 18.52 ± 1.19 | 4.64 ± 0.25 | |
| | | | | C) | | 30.27 ± 1.24 | 5.24 ± 0.26 | | |
| | | | | D) | | 48.62 ± 1.86 | 5.07 ± 0.25 | | |
| | | | | C) | | 16.05 ± 0.73 | 5.30 ± 0.32 | | |
| BM6 | A) | 17.36 ± 0.58 | 1.78 ± 0.06 | | BM6 | F)* | 17.07 ± 0.73 | 6.73 ± 0.28 | 222.25 ± 22.75 |
| | B) | 17.57 ± 0.75 | 2.55 ± 0.10 | | | | 17.75 ± 0.85 | 11.13 ± 0.28 | |
| | C) | 19.71 ± 1.00 | 5.45 ± 0.31 | | | E) | 29.07 ± 0.41 | 6.29 ± 0.17 | 223.22 ± 21.61 |
| | D)* | 18.57 ± 0.30 | 3.84 ± 0.03 | 112.20 ± 6.39 | | G)* | 29.48 ± 0.85 | 7.24 ± 0.15 | |
| | | 18.87 ± 0.48 | 5.74 ± 0.19 | | | | | 29.60 ± 1.11 | |
| | E) | 29.37 ± 1.02 | 5.62 ± 0.27 | | | | | | |
| BM7 | A) | 17.38 ± 0.62 | 3.06 ± 0.15 | | BM7 | D) | 16.08 ± 0.52 | 1.61 ± 0.08 | 124.58 ± 8.90 |
| | B) | 17.86 ± 0.78 | 7.12 ± 0.34 | | | E) | 17.47 ± 0.50 | 5.09 ± 0.47 | |
| | C) | 29.66 ± 0.86 | 6.22 ± 0.69 | | | F)* | 15.41 ± 0.29 | 3.35 ± 0.12 | |
| | | | | | | | 16.08 ± 0.45 | 5.98 ± 0.23 | |
| | | | | | | C) | 27.71 ± 0.71 | 6.39 ± 0.40 | |
| | | | | G) | | 28.80 ± 0.31 | 3.58 ± 0.05 | | |
| | | | | H) | | 40.24 ± 4.44 | 14.85 ± 1.49 | | |
| | | | | I) | | 75.66 ± 8.42 | 4.15 ± 0.35 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| BM8 | A) | 17.50 ± 0.82 | 6.21 ± 0.32 | | BM8 | E) | 16.95 ± 0.61 | 7.92 ± 0.43 | 254.71 ± 25.49 |
| | B) | 17.05 ± 0.56 | 9.54 ± 0.32 | | | F) | 29.75 ± 1.19 | 12.77 ± 1.35 | |
| | C) | 29.36 ± 1.03 | 6.48 ± 0.31 | | | D)* | 30.05 ± 0.82 | 8.28 ± 0.63 | |
| | D)* | 29.16 ± 0.73 | 9.86 ± 0.42 | 262.30 ± 62.63 | | | 30.70 ± 0.77 | 15.01 ± 1.44 | |
| | | 32.35 ± 1.64 | 15.43 ± 0.83 | | | | G)* | 29.28 ± 1.14 | 7.02 ± 0.37 |
| | | | | | | 29.4 ± 0.32 | 9.30 ± 0.20 | 177.33 ± 34.00 | |
| | | | | H) | | 41.69 ± 2.25 | 12.05 ± 1.66 | | |

Table S1: AFM measurements. Capital letters designate the fiber population and * is reported for twisted fibers, underlined letters indicates the population of fiber preserved from day 1 to day 7. Reported values stand for mean ± standard error of the mean (*SEM*) obtained at day 1 and day 7.