The role of salt and shear on the storage and assembly of spider silk proteins


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Appendix A. Supplementary data.

Table 1

\[\beta\]-sheet content of the aggregates of \((AQ)_{12}NR3\), \((AQ)_{24}\) and \((AQ)_{24}NR3\) (formed at pH 7 in the presence of 50 mM NaCl and shear stress) estimated using OPUS secondary structure determination software (PLS Quant 2) based on infrared absorption between 1730.8 and 1594.8 cm\(^{-1}\). For the aggregates formed in the presence of shear, the values of \(\beta\)-sheet content displayed were recorded at three different orientations (0°/45°/90° respectively) relative to the long axis of the fibrous aggregates.

<table>
<thead>
<tr>
<th>Position of polarizer relative to the long axis of the fiber</th>
<th>((AQ)_{12}NR3)</th>
<th>((AQ)_{24})</th>
<th>((AQ)_{24}NR3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>28.39</td>
<td>29.09</td>
<td>35.14</td>
</tr>
<tr>
<td>45°</td>
<td>28.26</td>
<td>33.15</td>
<td>34.48</td>
</tr>
<tr>
<td>90°</td>
<td>26.11</td>
<td>30.74</td>
<td>34.21</td>
</tr>
</tbody>
</table>