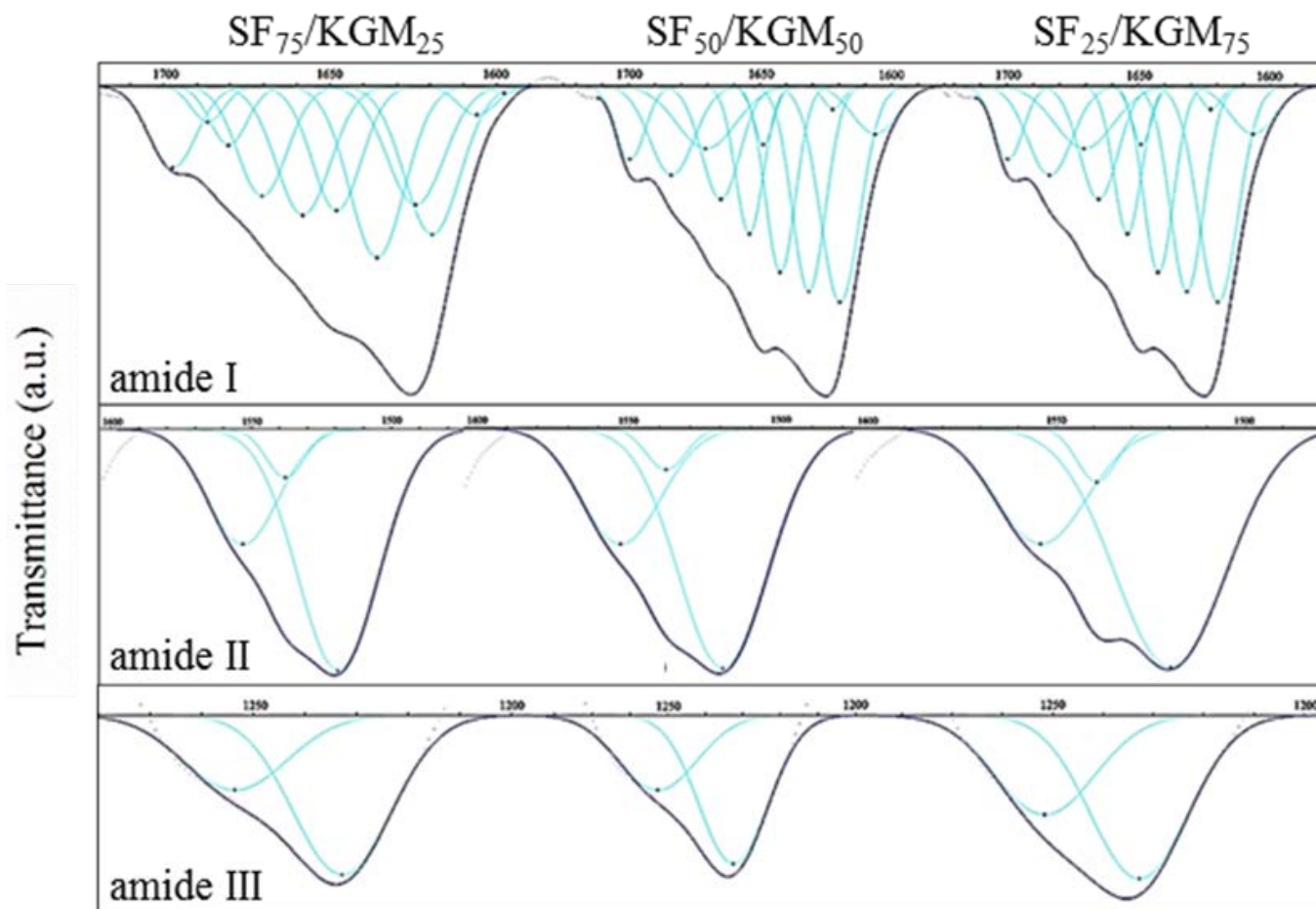


*Supplementary Information*

# **Synthesis and Properties of Silk Fibroin/Konjac Glucomannan Blend Beads**

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**Figure S1.** Deconvolution of FTIR-ATR spectra of SF/KGM beads treated with ethanol obtained at different ratios of SF and KGM (v/v).

**Table S1.**  $\beta$ -sheet percent obtained from the deconvolution of FTIR-ATR spectra of SF/KGM beads treated with ethanol obtained at different ratios of SF and KGM (v/v) for the amide I, II and III. In red the percentage referring to the conformation  $\beta$ -sheet.

		Amide I						Amide II			Amide III	
<b>SF<sub>25</sub>/KGM<sub>75</sub></b>	Wavenumber (cm <sup>-1</sup> )	1599	1622	1650	1668	1682	1699	1519	1539	1553	1232	1253
	Area (%)	1.27	34.12	45.42	2.15	11.70	5.33	67.38	5.43	27.18	61.71	38.29
	$\beta$ -sheet (%)	39.45						67.38			38.29	
<b>SF<sub>50</sub>/KGM<sub>50</sub></b>	Wavenumber (cm <sup>-1</sup> )	1601	1622	1647	1683	1668	1699	1519	1538	1552	1232	1252
	Area (%)	1.21	23.86	61.17	8.46	1.06	4.25	66.30	5.08	28.62	63.51	36.49
	$\beta$ -sheet (%)	28.10						66.30			36.50	
<b>SF<sub>75</sub>/KGM<sub>25</sub></b>	Wavenumber (cm <sup>-1</sup> )	1601	1622	1647	1668	1683	1699	1519	1538	1553	1232	1251
	Area (%)	1.11	23.33	61.54	1.09	8.28	4.65	66.08	6.29	27.62	66.79	33.21
	$\beta$ -sheet (%)	27.98						66.08			33.2	