



Figure 2 - Supplement 3: Deconvolution of FTIR spectra. FTIR analysis of the secondary structure of PSMs peptides. The data were processed by baseline correction and interfering signals from H_2O and CO_2 were removed using the atmospheric compensation filter. Further, peak positions were assigned where the second order derivative had local minima and the intensity was modeled by Gaussian curve fitting using the OPUS 5.5 software. (a) FTIR spectra and second order derivative of the spectra of PSM α 1 at 0.5 mg/mL. (b) FTIR spectra and second order derivative of the spectra of PSM α 3 at 0.5 mg/mL. (c) FTIR spectra and second order derivative of the spectra of PSM α 4 at 0.5 mg/mL. (d) FTIR spectra and second order derivative of the spectra of PSM β 1 at

0.025 mg/mL. (e) FTIR spectra and second order derivative of the spectra of PSM β 2 at 0.25 mg/mL.