

Electronic Supplementary Information

S-1

Observed and deconvoluted ¹³C DD/MAS NMR spectra of Ala Cβ carbons of hydrated [3-¹³C]Ala-, [3-¹³C]Ser- and [3-¹³C]Tyr-*B. mori* silk fibroin sponges prepared with (a)Glycerin (Glyc), (b) Poly(ethylene glycol diglycidyl ether) (PGDE) and (c) Poly(ethylene glycol) (PEG) as porogen (SF/porogen ratio 70:30 w/w). Here, r.c.: random coil and h.r.c. : hydrated random coil.



Chemical shift /ppm

S-2

Observed and deconvoluted ¹³C DD/MAS NMR spectra of Ser C β carbons of hydrated [3-¹³C]Ala-, [3-¹³C]Ser- and [3-¹³C]Tyr-*B. mori* silk fibroin sponges prepared with (a)Glycerin (Glyc), (b) Poly(ethylene glycol diglycidyl ether) (PGDE) and (c) Poly(ethylene glycol) (PEG) as porogen (SF/porogen ratio 70:30 w/w). Here, r.c.: random coil and h.r.c. : hydrated random coil.



S-3

Observed and deconvoluted ¹³C DD/MAS NMR spectra of Tyr C β and Gly C α carbons of hydrated [3-¹³C]Ala-, [3-¹³C]Ser- and [3-¹³C]Tyr-*B. mori* silk fibroin sponges prepared with (a)Glycerin (Glyc), (b) Poly(ethylene glycol diglycidyl ether) (PGDE) and (c) Poly(ethylene glycol) (PEG) as porogen (SF/porogen ratio 70:30 w/w). Here, r.c.: random coil and h.r.c. : hydrated random coil.