

Supporting information

Facile strategy for the development of polyglucopyranose -silver hydrogel/films for antimicrobial applications

Reshma Lali Raveendran^a, Sudha J. Devaki ^{a*} and K. Madhavan Nampoothiri^b

Chemical Sciences and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, 695019, India.

Figure S1. FT-IR studies of A) polyglucopyranose B) SPC and C) SPCS4 hydrogel films.

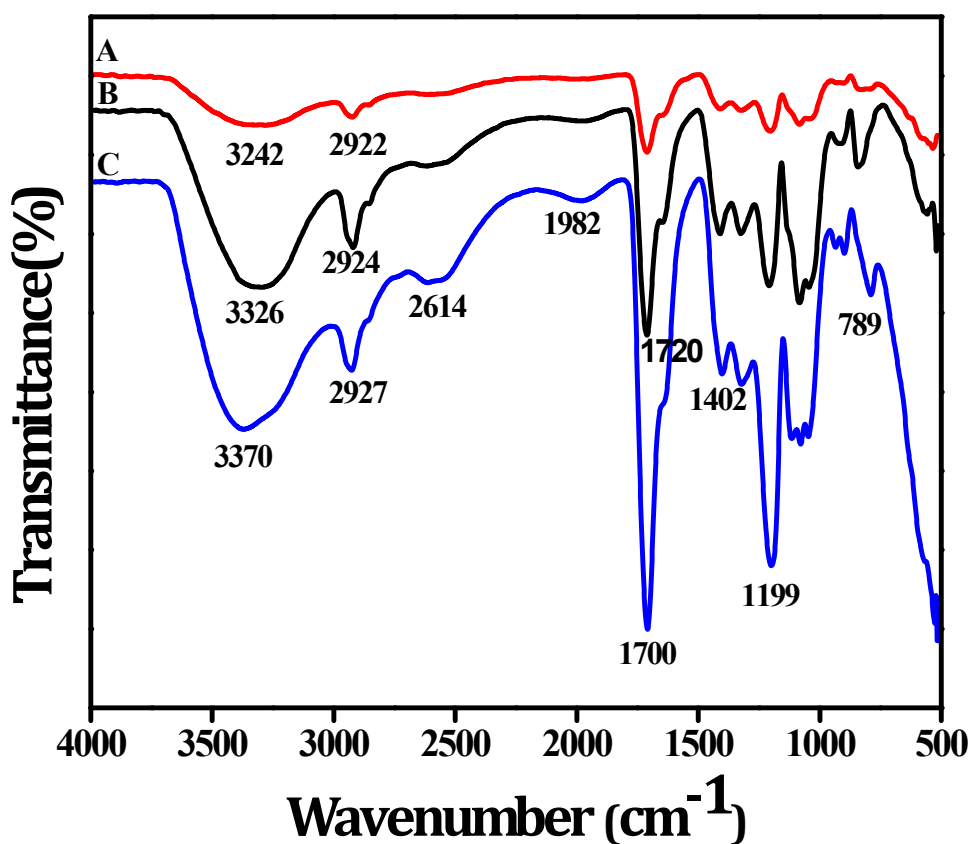


Table S1. Experimental details of preparation of SPC and SPCS hydrogels films

Sample	Vol. of polyglucopyranose soln (5%)	Vol. of PVA soln (5%)	Citric acid (1 m L)	Amount of silver nitrate (1mL)	Experimental conditions	Duration for gel formation	Initial color/final color
SPC	5mL	2 mL	2 wt%	0	60 °C 3 hrs	6 hrs	Colourless
SPCS-1	5mL	2mL	2 wt%	2×10^{-2} M	60 °C 3 hrs	6 hrs	Light yellow
SPCS-2	5mL	2mL	2 wt%	4×10^{-2} M	60 °C 3 hrs	6 hrs	Light brown
SPCS-3	5mL	2mL	2 wt%	6×10^{-2} M	60 °C 3 hrs	6 hrs	Brown
SPCS-4	5mL	2mL	2 wt%	8×10^{-2} M	60 °C 3 hrs	6 hrs	Dark brown