Electronic Supplementary Material (ESI) for New Journal of Chemistry.

This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2018

Supporting Information

Selective Adsorption of Globulin on Nanofiber Meshes for Immunoadsorption Therapy

Rio Kurimoto^{a,b}, Koki Namekawa^{b,c}, Amanda V Ellis^d, Masanobu Naito^{a,e}, and Mitsuhiro Ebara^{a,b,f}

^a Graduate School of Pure and Applied Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8577, Japan.

^b International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan.

^c Department of Medical and General Sciences, Nihon Institute of Medical Science, 1276 Shimokawara, Moroyamamachi, Irumagun, Saitama 350-0435 Japan.

^d School of Chemical and Biomedical Engineering, University of Melbourne, Parkville, Victoria 3010, Australia.

^e Research Center for Structural Materials, National Institute for Materials Science (NIMS), 1-2-1 Sengen, Tsukuba, Ibaraki 305-0047, Japan.

^f Graduate School of Industrial Science and Technology, Tokyo University of Science, 6-3-1 Niijuku, Katsushika-ku, Tokyo 125-8585, Japan

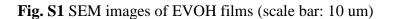


Fig. S2 FTIR spectra of various the EVOH nanofiber meshes (a) and films (b) modified with MA

Fig. S3 FTIR spectra of the EVOH nanofiber meshes modified with various MA concentrations

Fig. S4 ¹H-NMR spectra of the MA-modified EVOH nanofiber meshes

Fig. S5 The fitting curves of (a) Langmuir and (b) Freundlich isotherm models for γ -globulin adsorption on the MA-modified EVOH nanofiber mesh.

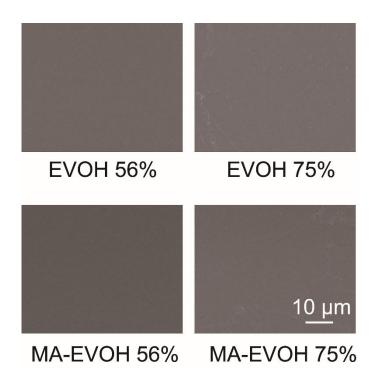
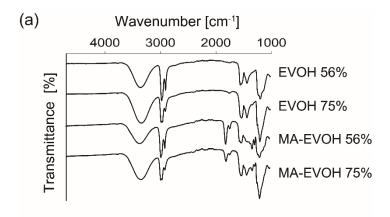


Fig. S1



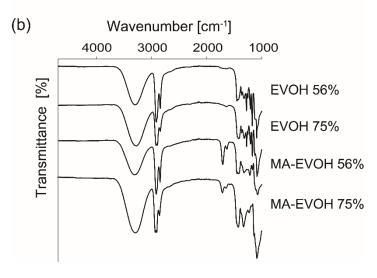


Fig. S2

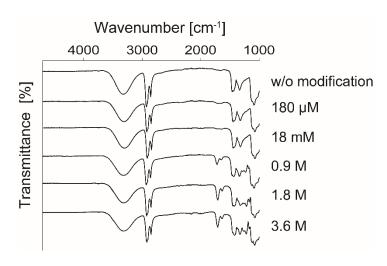
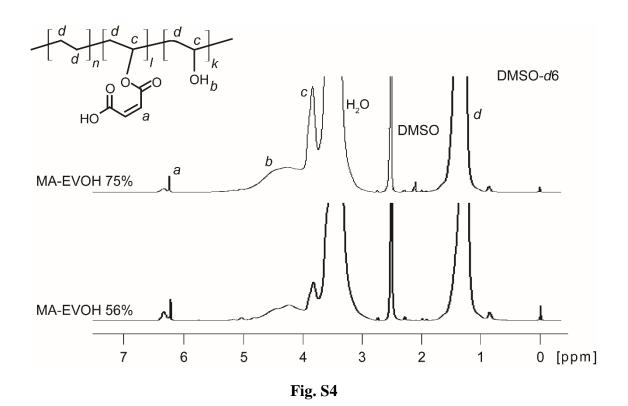
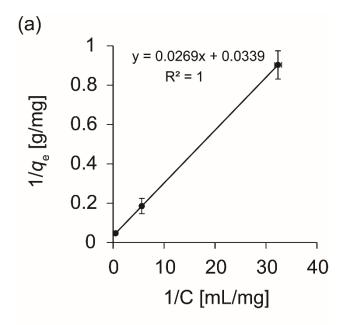


Fig. S3





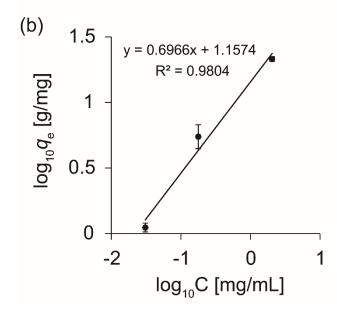


Fig. S5