SUPPORTING INFORMATION

Specific binding of immunoglobulin G to protein A-mesoporous silica composites for affinity column chromatography

Kazuma Nakanishi,[a,b] Masahiro Tomita,[a] Hitomi Nakamura[b] and Katsuya Kato*[b]

[a] *Department of Chemistry for Materials, Graduate School of Engineering, Mie University, 1577 Kurimamachiya-cho, Tsu, Mie 514-8570, Japan. Fax: +81 59 231 9430; Tel: +81 59 231 9428; E-mail: Kazuma-nakanishi@aist.go.jp*
[b] *National Institute of Advanced Industrial Science and Technology, 2266-78, Anagahora, Moriyamaku, Nagoya, Aichi 463-8560, Japan. Fax: +81 52 736 7405; Tel: +81 52 736 7551; E-mail: katsuya-kato@aist.go.jp*

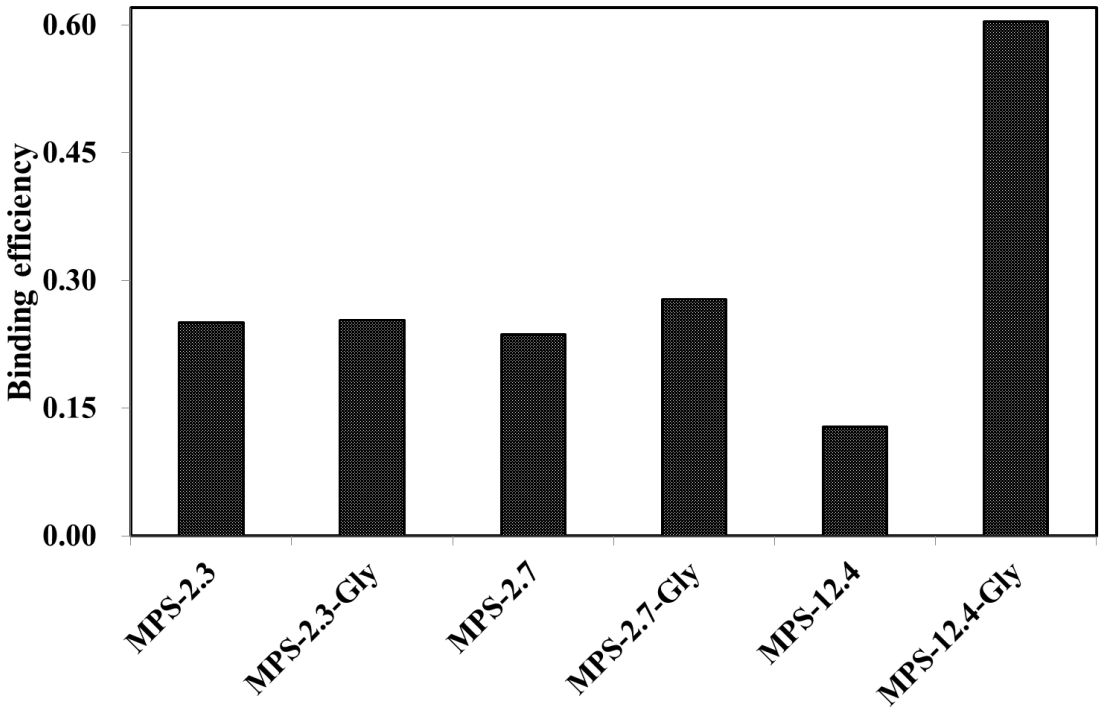

Fig. S1 IgG binding efficiency of protein G-MPS composite.

Binding efficiency was calculated as the capacity of IgG bound to protein G-carrier composite [μg]/amount of immobilised protein A per 3 mg of carrier [μg]. The experimental method was similar to that adopted for protein A composite.

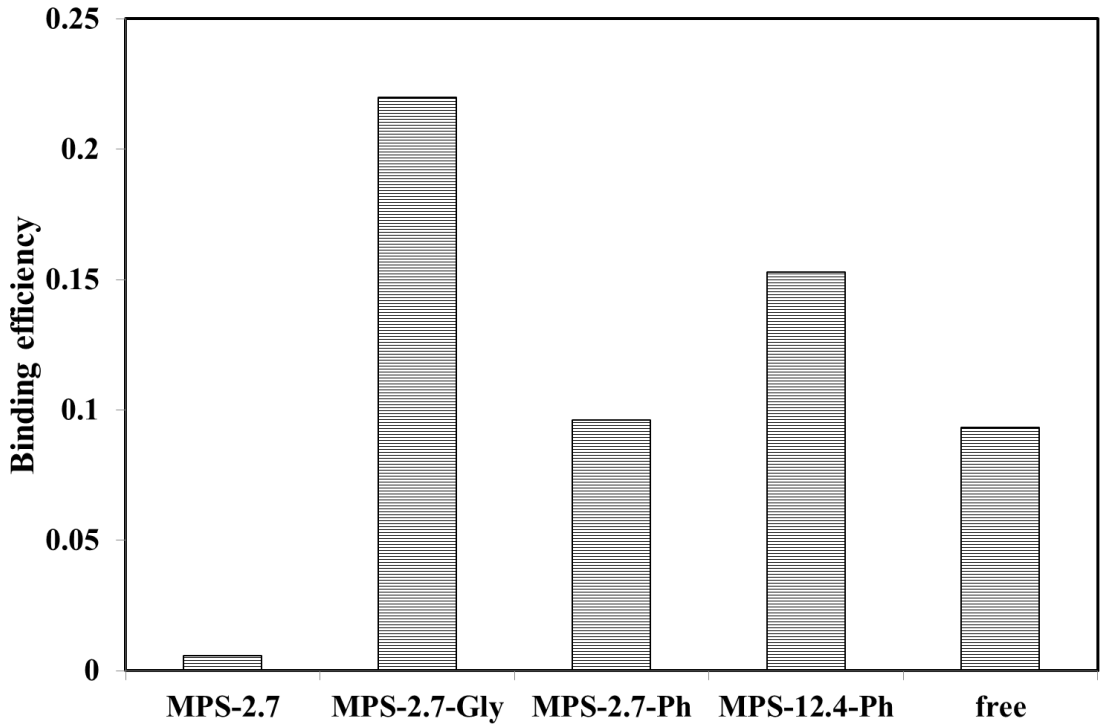

Fig. S2 Thermal stability of MPS-protein A composite.

The samples (MPS-protein A composites and protein A solution) were treated at 90 °C for 3 h. Free denotes treated protein A immobilised to MPS-2.7. After blocking and binding specifically with FITC-IgG, supernatants were analysed for their fluorescent intensity.