

618 **Figure legends**

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620 Figure 1. Relative Ag distribution, expressed as a proportion of total Ag accumulation, in the
621 four compartments of the anterior/mid-intestine gut sac (mucus, mucosal epithelium
622 (enterocytes), muscle tissue and serosal saline (these latter two comprising the blood
623 compartment)) following exposure to Ag only (grey bars, Ag MP co-exposure (white bars)
624 and Ag-incubated MPs (black bars). Mean values are presented with error bars showing S.D.,
625 n=6 individual guts sacs per treatment.

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627 Figure 2. Adsorption (A) and desorption (B) kinetics of Ag with PE MPs. Adsorption to the MPs in
628 artificial freshwater (presented as % adsorption (\pm S.D., n=3) was determined over 24 h (t=0, 3, 6, 9,
629 18 and 24 h). Desorption studies were conducted over 3 h in pH-adjusted luminal saline solutions (pH
630 2.2 (green circles, green dotted line), pH 4.1 (red circles, red short-dashed line), pH 7.2 (blue
631 triangles, blue medium-dashed line) and pH 9.8 (grey inverted triangles, black long-dashed line)).
632 Desorption data presented as % loss (from Ag adsorption at t=0 h) \pm S.D, n=3).

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