

Fig. S1 Scheme of the sample preparation and CPE (cloud point extraction) procedures.

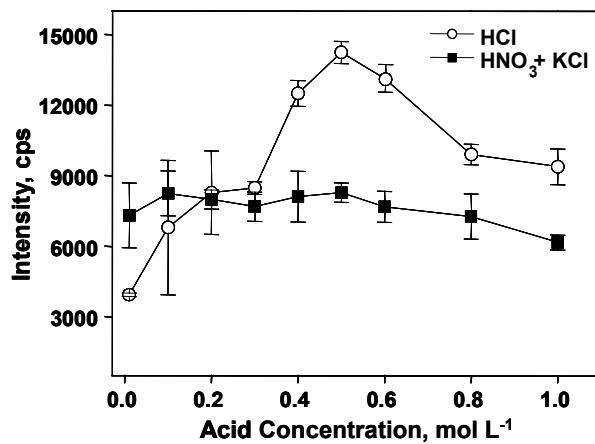


Fig. S2 Influence of the acid medium (HCl or HNO₃ + KCl) on the pre-concentration of Hg (3.0 µg L⁻¹ of Hg²⁺). DDTP concentration: 0.05% (m/v); Triton X-114: 0.3% (m/v) and KCl: 0.007% (m/v).

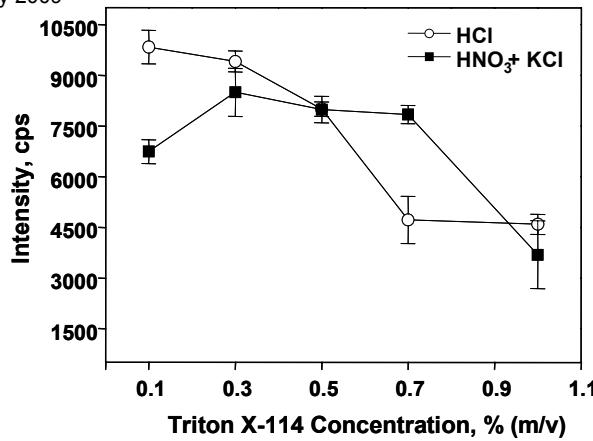


Fig. S3 Effect of the surfactant (Triton X-114) concentration on Hg ($3.0 \mu\text{g L}^{-1}$ of Hg^{2+}) pre-concentration. Pre-concentration medium: 0.5 mol L^{-1} HCl or 0.5 mol L^{-1} $\text{HNO}_3 + \text{KCl}$ 0.007% (m/v), and DDTP 0.05% (m/v).

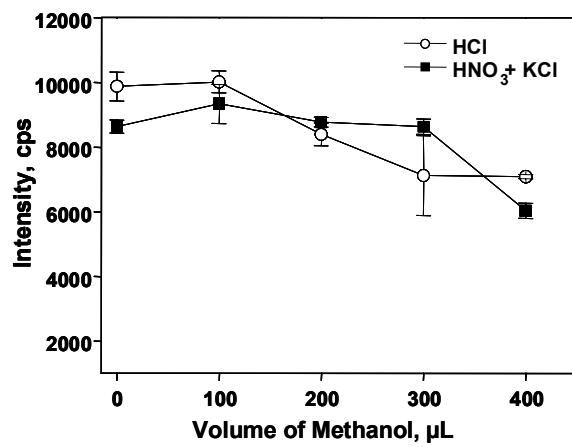


Fig. S4 Effect of the volume of methanol added the surfactant-rich phase. A solution containing $3.0 \mu\text{g L}^{-1}$ of Hg^{2+} was used. Pre-concentration medium: 0.5 mol L^{-1} HCl or 0.5 mol L^{-1} $\text{HNO}_3 + \text{KCl}$ 0.007% (m/v), DDTP 0.05% (m/v), and Triton X-114 0.3% (m/v). Different solutions with the same Hg concentration were prepared for each volume of methanol analyzed.