**Supplementary data**



**Figure S1.** ISE-H+ potentiometric curve of a solution containing Pd2+ 0.38 mmol L-1, AA 0.57 mmol L-1, in NaCl /NaClO4 medium, at I = 0.1 mol L-1 and CCl- = 0.01 mol L-1.



**Figure S2.** Trend of qe with chloride concentration in solution at different pH values and at T = 25°C. Symbols and corresponding pH values: (pH = 5, ▽); (pH = 4, △); (pH = 3, 🌕); (pH = 2, □)



**Figure S3.** Dependence on CCl- of qmax (□) and of pL0.5 (🌕) in the Pd2+ - AA system, at pH = 2, in NaClO4 / NaCl ionic medium, at I = 0.1 mol L-1 and at T = 25°C