

Supporting Information

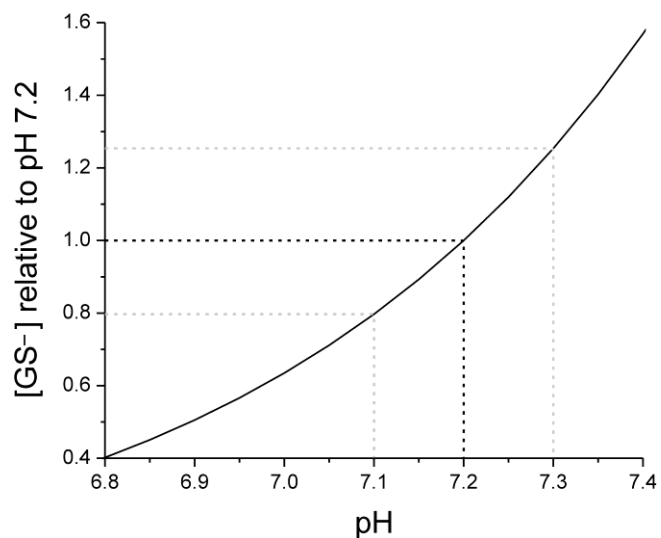


Figure S1. Variation of the concentration of the thiolate form of GSH near physiologic pH. Relative abundance of the nucleophilic thiolate form of GSH (GS^-) as a function of pH; values are normalized to $[\text{GS}^-]$ at pH 7.2 (indicated by the black dotted line). As shown by the gray dotted lines, shifting pH by ± 0.1 causes $[\text{GS}^-]$ to change by more than $\pm 20\%$. The values were computed using the microscopic proton dissociation constants of GSH, as previously described ⁴.