



**Figure S1.**

Evolution of the absorption spectra of air-equilibrated solutions of dAMP ( $300 \mu\text{M}$ ) irradiated in the presence of pterin ( $50 \mu\text{M}$ ), as a function of irradiation time (0, 15, 30 and 60 min). In this Figure, the spectrum of a pterin solution was subtracted to the experimental spectra recorded at the different times (pH = 5.5; arrows indicate the changes observed at different wavelengths). Inset: Experimental-difference spectra.