



**Fig 1** Fluorescence spectra of drug-free human urine and plasma using the general analytical procedure of the proposed spectrofluorimetric method

It should be noted that, the fluorescence intensity of the urine and plasma matrix with benzofurazan (NBD-Cl) is due to the NBD-Cl reagent background not the urine or plasma matrix components as NBD-Cl converted to NBD-OH in the alkaline medium of the borate buffer and we decreased this background in our methods by acidifying NBD-OH with hydrochloric acid.