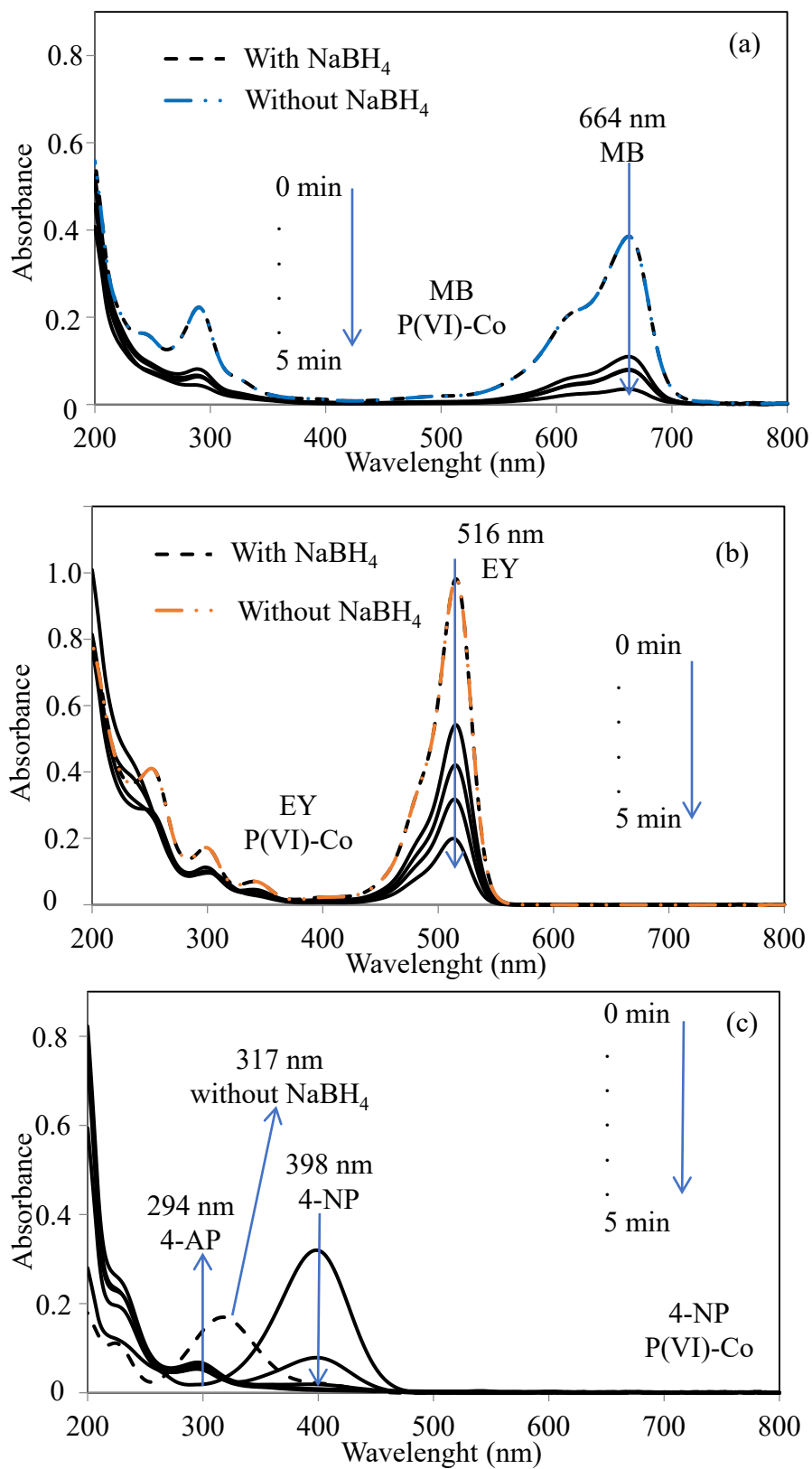
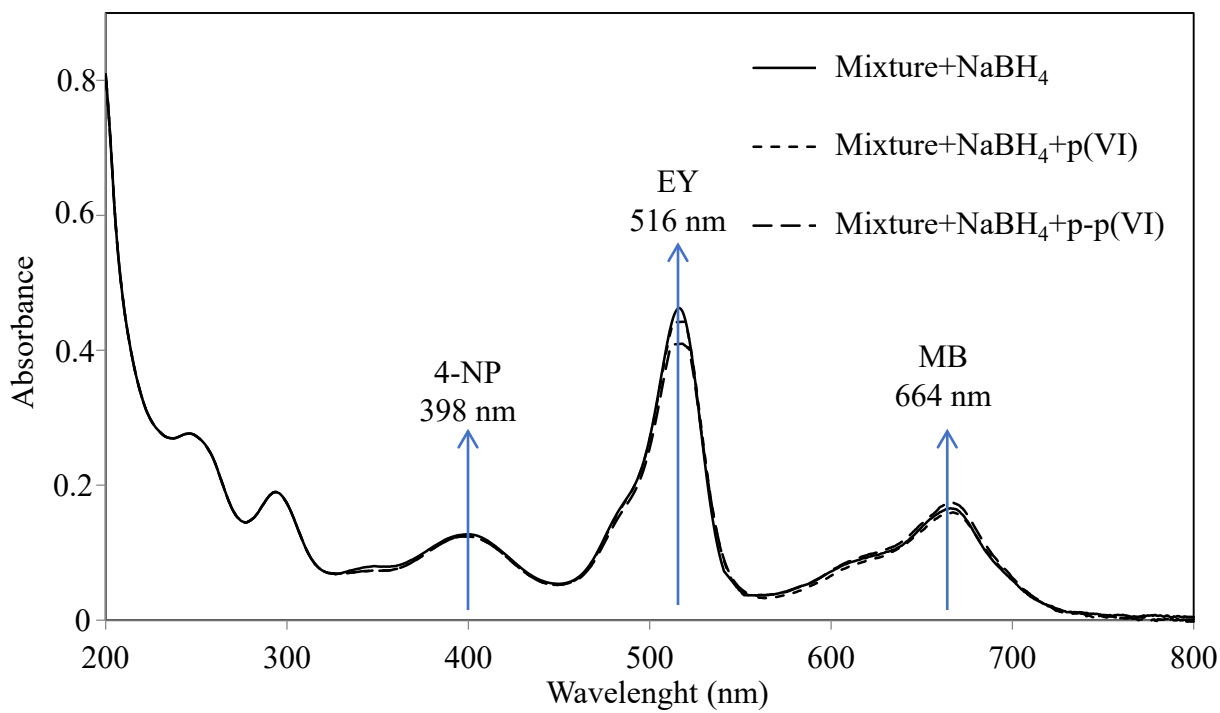


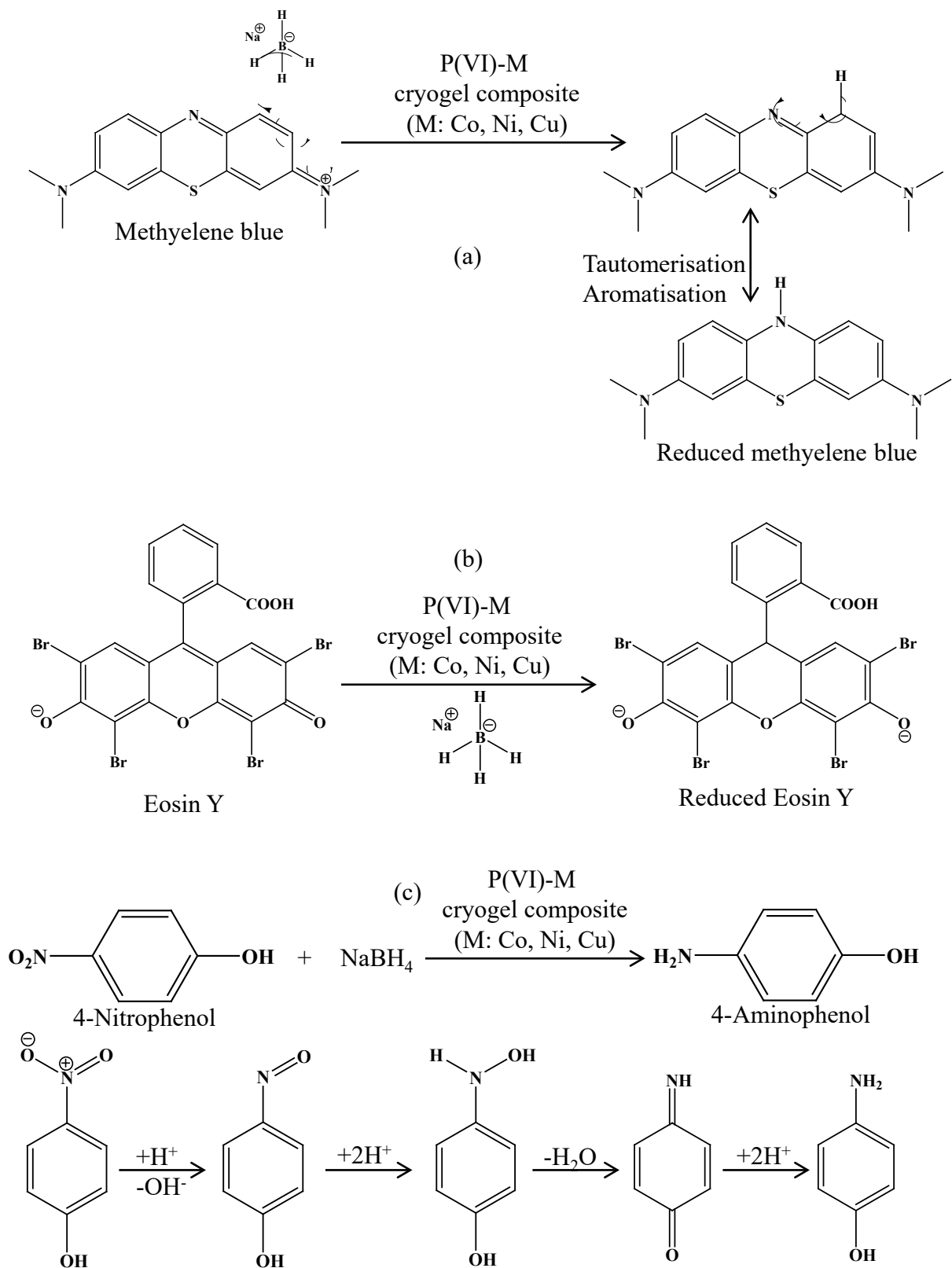
Suppl. Fig. 1. (a) FT-IR spectra of VI monomer, p(VI), and protonated p(VI) cryogels, and (b) TGA thermograms of p(VI), protonated p(VI), and p(VI)-M cryogel composites.



Suppl. Fig. 2. UV-Vis spectrum of p(VI)-Co cryogel composites catalyzed (a) MB degradation, (b) EY degradation, and (c) 4-NP reduction.



Suppl. Fig. 3. UV-Vis spectrum of MB+EY+4-NP mixture solution in the presence of NaBH₄, p(VI) and p-p(VI) cryogels.



Suppl. Fig. 4. The possible mechanism for (a) degradation of MB dye, (b) degradation of EY dye, and (c) reduction 4-NP in the presence of p(VI)-M (M: Co, Ni, or Cu) cryogel composite cryogels and NaBH_4 .