23. The following equilibrium exists in bromine solution.

$$Br_2(aq) + H_2O(\ell) \rightleftharpoons Br^-(aq) + 2H^+(aq) + OBr^-(aq)$$

(red) (colourless) (colourless)

The red colour of the solution would fade on adding a few drops of a concentrated solution of

HCl

KBr

AgNO₂ NaOBr.