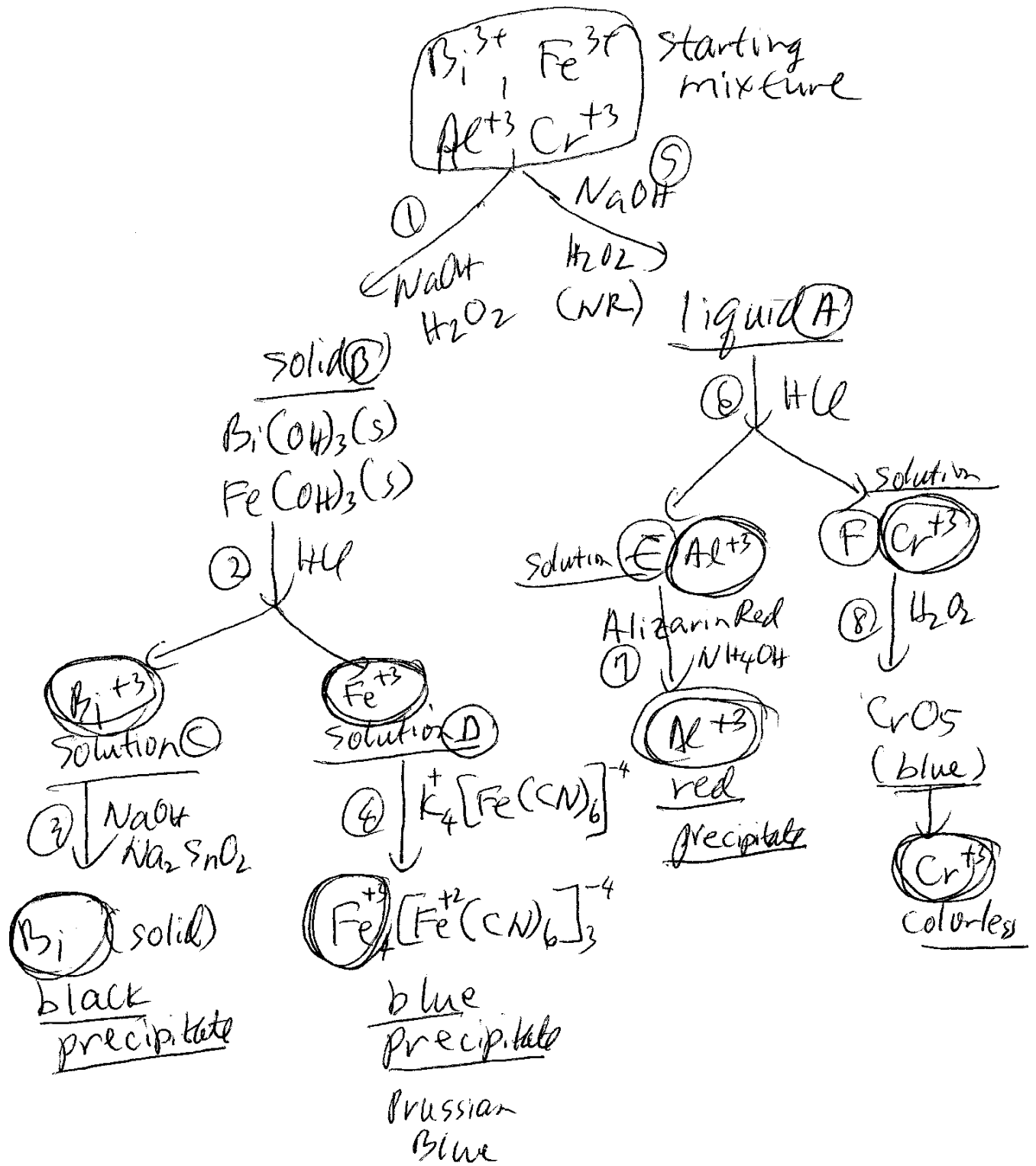


# Experiment - 27 Qualitative Analysis



In this lab you are going to take a mixture with 4 cations & use the above scheme to confirm the presence of each cation. Then you will re-do the scheme for an unknown,

Rxn ① is precipitation Rxn (OH<sup>-</sup> <sup>(metal)</sup> or <sup>one</sup> insoluble)

Rxn ③ is a redox ( $Bi^{+3} \rightarrow Bi^0$ )

Rxn ④ is a metathesis  $K_4[Fe(CN)_6]_3$   
K gets replaced by  $Fe^{+3}$

Rxn ⑤ gives the Alizarin Red Complex

Rxn ⑧ gives  $Cr^{+3}$  gets oxidized to  $CrO_5$  which is short lived & reverts to  $Cr^{+3}$