Prepare all entries in your notebook through 5b as directed in the syllabus and your lab manual. Remember to adapt your procedure and tables for your assigned solutions from table 1 below.

IN ADDITION TO THE TABLES, CALCULATE THE NUMBER OF MOLES OF S2O82- USED UP EVERYTIME THE SOLUTION TURNS BLUE-BLACK AND THE INITIAL CONCENTRATIONS AS DIRECTED IN YOUR MANUAL.

**Table 1.** Reagent amounts for solutions 1-6.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| solution **#** | 1 | 2 | 3 | 4 | 5 | 6 |
| 0.2 M KI (mL) | 25.00 | 25.00 | 50.00 | 12.50 | 50.00 | 12.50 |
| starch (mL) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 0.4 M Na2S2O3 (mL) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 0.2 M KNO3 (mL) | 48.00 | 23.00 | 23.00 | 35.50 | 35.50 | 60.50 |
| EDTA (drop) | 1 | 1 | 1 | 1 | 1 | 1 |
| 0.2 M (NH4)2S2O8 (mL)  | 25.00 | 50.00 | 25.00 | 50.00 | 12.50 | 25.00 |

**Table 2.** Assignments section 002 Th am.

|  |  |  |
| --- | --- | --- |
| group/bin # | who? | solutions  |
| 1 |  | 1, 2 & 3 |
| 2 |  | 1, 2 & 4 |
| 3 |  | 3, 5 & 6 |
| 4 |  | 2, 4 & 6 |
| 5 |  | 1, 3 & 5 |
| 6 |  | 3, 5 & 6 |
| 7 |  | 2, 4 & 6 |

**Table 3.** Assignments section 003 Th pm.

|  |  |  |
| --- | --- | --- |
| group/bin # | who? | solutions |
| 1 |  | 1, 2 & 3 |
| 2 |  | 1, 2 & 4 |
| 3 |  | 3, 5 & 6 |
| 4 |  | 2, 4 & 6 |
| 5 |  | 1, 3 & 5 |
| 6 |  | 3, 5 & 6 |
| 7 |  | 2, 4 & 6 |
| 8 |  | 1, 3 & 5 |