**Analysis of Percent Acetylsalicylic Acid (Aspirin) in a Mystery Tablet**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Course\_\_\_\_\_\_Section\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_

Part 1: Experimental Controls

Positive Control Analysis

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Portion 1** | **Portion 2** | **Portion 3** |
| Weight of ASA used |  |  |  |
| Volume of NaOH |  |  |  |
| Molarity of NaOH |  |  |  |
| ASA measured (mg) |  |  |  |

Average mg of ASA measured \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Std. Dev.\_\_\_\_\_\_\_\_\_\_\_\_

Negative Control Analysis (use corn starch as the negative control)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Portion 1** | **Portion 2** | **Portion 3** |
| Weight of negative control used |  |  |  |
| Volume of NaOH |  |  |  |
| Molarity of NaOH |  |  |  |
| Interference measured (mg) |  |  |  |

Average mg of ASA measured \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Std. Dev.\_\_\_\_\_\_\_\_\_\_\_\_

Part 2: Analysis of the tablet

|  |  |  |  |
| --- | --- | --- | --- |
| CONTROL | Trial 1 | Trial 2 | Trial 3 |
| Number of Tablet(s) Used (g) |  |  |  |
| Total Mass of Tablet(s) (g) |  |  |  |
| Total Volume of NaOH (mL) |  |  |  |
| Moles NaOH reacted |  |  |  |
| Moles ASA |  |  |  |
| Total Mass of ASA |  |  |  |
| Mass of ASA per Tablet (g) |  |  |  |
| %ASA per Tablet |  |  |  |

Average % Composition:\_\_\_\_\_\_\_\_\_\_ Standard Deviation: \_\_\_\_\_\_\_\_\_\_\_

Part 3: Propagated error for the tablet analysis:

**Propagation of Error: Source of Error Error Introduced (include units!)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Error Propagated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_