

**LABORATORY REPORT SHEET**

Name \_\_\_\_\_ Date \_\_\_\_\_ Section \_\_\_\_\_

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> # \_\_\_\_\_ Bleach Brand \_\_\_\_\_

**Standardization**

mass of KIO<sub>3</sub> in 100 mL flask (g) \_\_\_\_\_ moles KIO<sub>3</sub> used in each titration (5.00 mL) \_\_\_\_\_

moles I<sub>2</sub> formed in each titration \_\_\_\_\_

Titration #	1	2	3	4	5
moles S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> needed	_____	_____	_____	_____	_____
volume S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> needed	_____	_____	_____	_____	_____
[S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ] (M)	_____	_____	_____	_____	_____
mean [S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ] (M)	_____		standard deviation _____		

**Titration of Bleach Samples**

volume S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> used (mL)	_____	_____	_____	_____	_____
moles S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> used	_____	_____	_____	_____	_____
moles I <sub>2</sub> present (reaction 2)	_____	_____	_____	_____	_____
moles OCl <sup>-</sup> present (reaction 1)	_____	_____	_____	_____	_____
mass NaOCl	_____	_____	_____	_____	_____
sample volume	<u>0.10 mL</u>	<u>0.10 mL</u>	<u>0.10 mL</u>	<u>0.10 mL</u>	<u>0.10 mL</u>
% NaOCl (w/v)	_____	_____	_____	_____	_____
Mean % NaOCl	_____		standard deviation _____		