Lab 4

•	Reagent Name	Reqd. PPE	Critical Safety Hazards	Reactivity	Disposal
ļ	Pickle	Standard	None	Non-reactive	Solid trash/Sink
	Sodium bicarbonate	None	Standard	Non-reactive	Hazardous waste
	Silver nitrate 0.100N	None	Standard	Non-reactive	Hazardous waste
	5% Potassium Chromate	Environmental	Standard	Non-reactive	Chromate must not go down the drain, requires thorough rinsing into Hazardous Waste
	Sodium chloride	None	Standard	Non-reactive	Solid trash/Sink
	Ammonium Hydroxide	None	Standard	Non-reactive	Hazardous waste
	Silver chloride	None	Standard	Non-reactive	Hazardous waste (use Ammonium Hydroxide to rinse)

- 2. $N=M\times n\Rightarrow M=\frac{N}{n}\Rightarrow M=\frac{1.0007\text{ eq/L}}{1\text{ eq/mol}}=1.0007\text{ mol/L}=1.0007\text{ M}$ 3. $0.1000\text{ g NaCl}\times\frac{1\text{ mol NaCl}}{58.443\text{ g NaCl}}\times\frac{1\text{ mol AgNO3}}{1\text{ mol NaCl}}\times\frac{1\text{ L AgNO3}}{0.1000\text{ mol AgNO3}}\times\frac{1000\text{ mL}}{1\text{ L}}=17.11\text{ mL AgNO_3}$ should be close to the volume used to standardize the silver nitrate in part b.

 4. $28.0000\text{ g pickle}\times\frac{280\text{ mg Na}}{28\text{ g pickle}}\times\frac{1\text{ g}}{1000\text{ mg}}\times\frac{1\text{ mol Na}}{22.990\text{ g Na}}\times\frac{1\text{ mol AgNO3}}{1\text{ mol Na}}\times\frac{1\text{ L AgNO3}}{0.1000\text{ mol AgNO3}}\times\frac{1000\text{ mL}}{1\text{ L}}\times\frac{20\text{ mL}}{100\text{ mL}}=24.36\text{ mL AgNO_3}$ should be close to the volume used to titrate the pickle in part c.