LDA Titration

Weigh ~0.4g of diphenylacetic acid into a 5 mL volumetric flask. Make up rest of volume with THF (no stir bar).

Weigh ~0.04g LDA in 5 mL Kimble vial with stir bar. Add 1 mL of THF to each vial. Add stock solution of DPAA until the color changes from yellow to white (ppt).

Calculations:

g LDA/107.12 g/mol LDA = mol LDA if 100% pure

g DPAA/212.25 g/mol DPAA/0.005L = M DPAA stock solution

M DPAA stock solution x L used for titration = actual mol LDA in vial

actual mol/theoretical mol x 100 = % purity of LDA