

東海大學

TUNG HAI UNIVERSITY

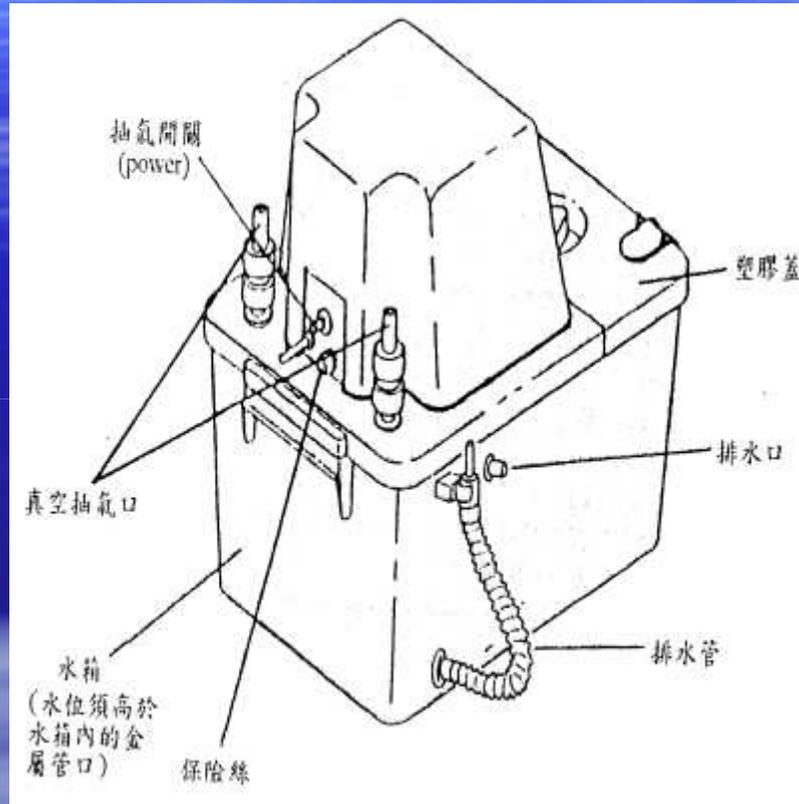
普通化學實驗

Exp 06
Stoichiometry

Stoichiometry

- the calculation of the quantities of chemical elements or compounds involved in chemical reactions.
- Word equation → Skeleton equation → Coefficient balance → limiting reactant → Theoretical yield → actual yield → % yield

Suction filter



)



Net ionic equation:



Procedure

Take a CaCl_2 solution of the specified volume in a 50mL beaker using a graduated cylinder.



Add 3.0 mL of Na_2CO_3 solution to the above beaker and add 10 mL of distilled water to the solution. In the liquid, stir with a glass rod and mix well.



Heat the beaker for two or three minutes and stir the solution and precipitate in the beaker with a glass rod to prevent heating and splattered solution.(50 °C)



Cool the beaker to room temperature



Take a piece of filter paper and weigh it with the balance



Place the filter paper in a Buchi funnel, insert the funnel into a vacuum filter, and dampen the filter paper with distilled water



After filtration, carefully remove the filter paper from the funnel and place it on clean toilet paper

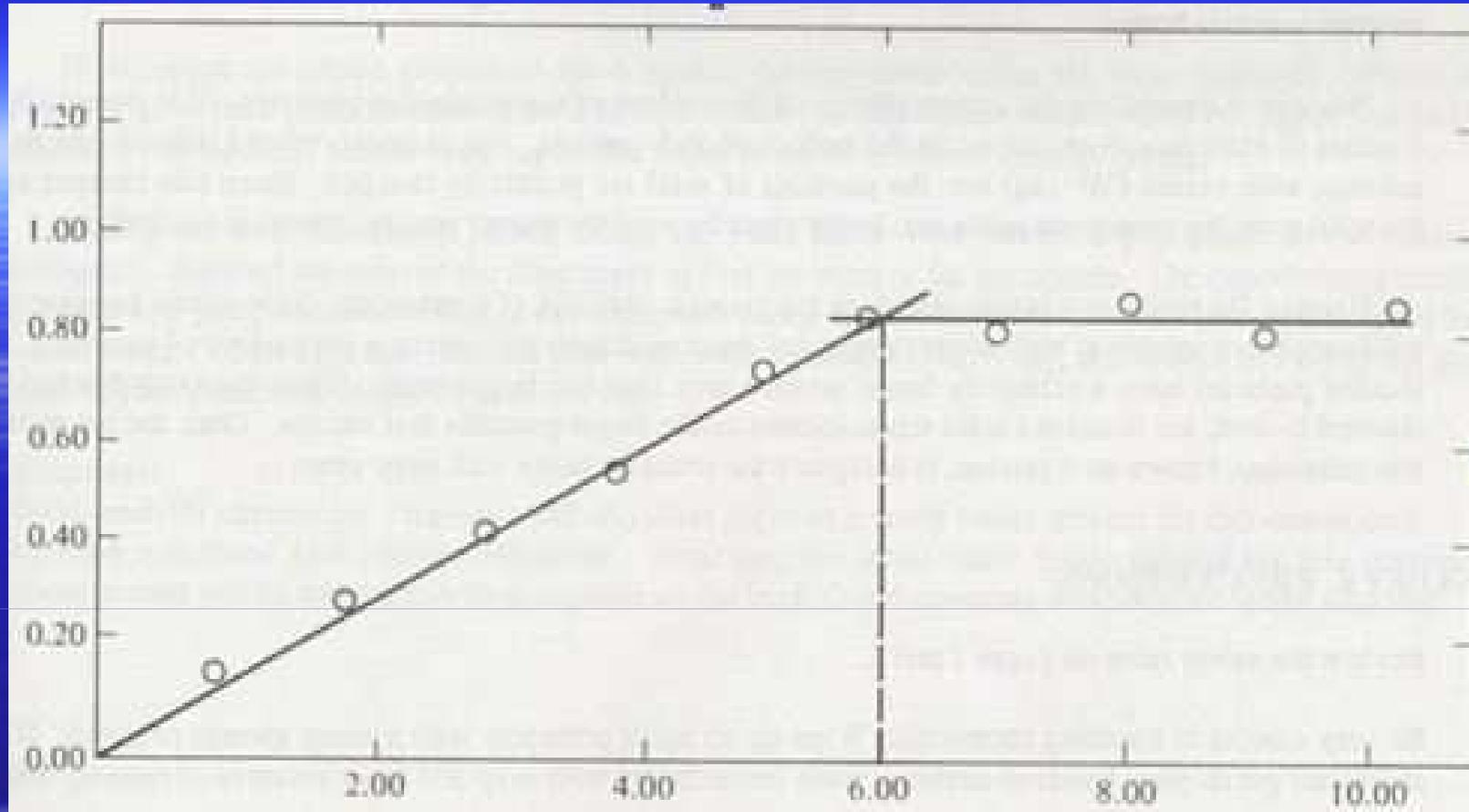
Dry in oven



mass the precipitate



Repeat again



Y axial : mass of CaCO₃

X axial : mMole of CaCl₂