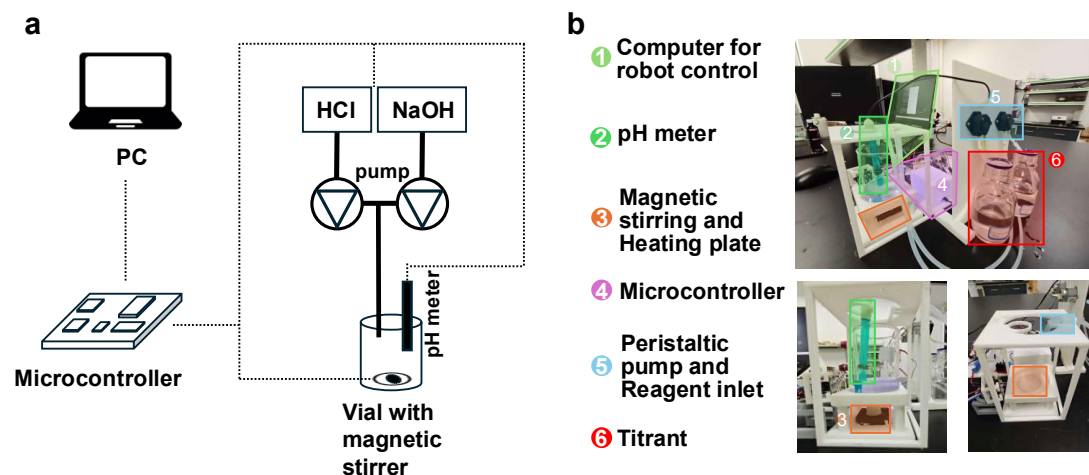


# Hardware



(a) Schematic diagram and (b) photograph of the automated titration platform. The system is controlled by a microcomputer which coordinates a peristaltic pump for the delivery of acid/base titrant into a temperature-controlled, magnetically stirred sample vial, while a pH meter provides real-time measurements. Key hardware components, including a PC, microcontroller, pH meter, pump, and thermostatic magnetic stirrer, are integrated to form a closed-loop automated titration system.

## Accessory list

Pump [https://wiki.dfrobot.com.cn/SKU\\_DFR0523\\_Gravity\\_Peristaltic\\_Pump](https://wiki.dfrobot.com.cn/SKU_DFR0523_Gravity_Peristaltic_Pump)

pH meter [Gravity: 模拟 PH 计 \(Arduino 兼容\) -液体传感器-DFRobot 创客商城](#)

Thermostatic magnetic stirrer DIY, requires a small fan, a strong magnet, and a ceramic heating sheet.

Arduino Uno and Some electrical components