

Application Note

A-21

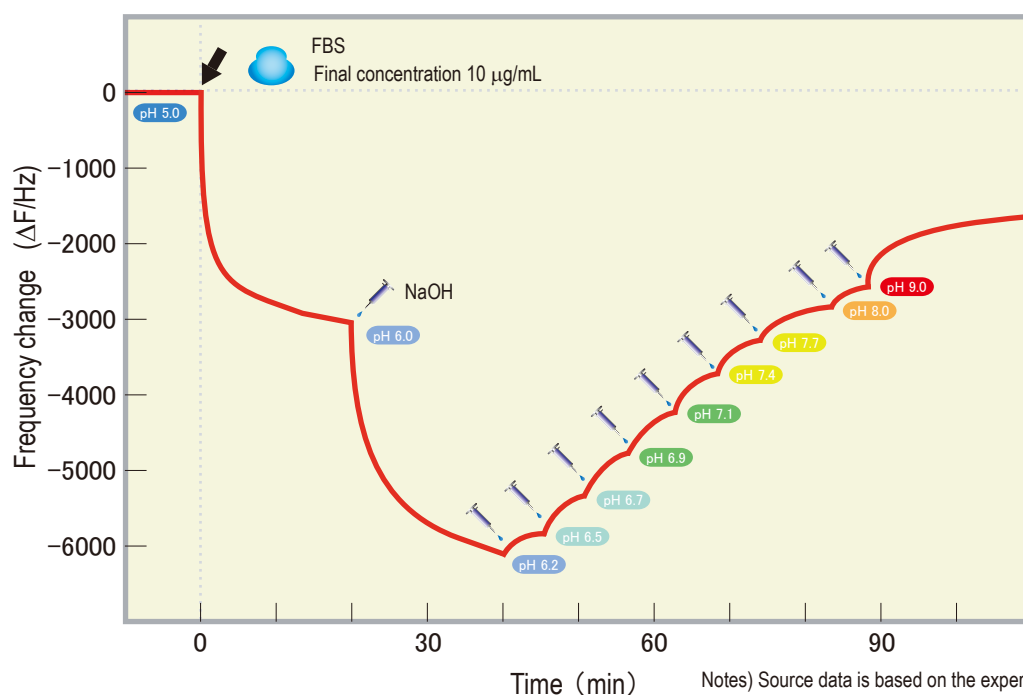
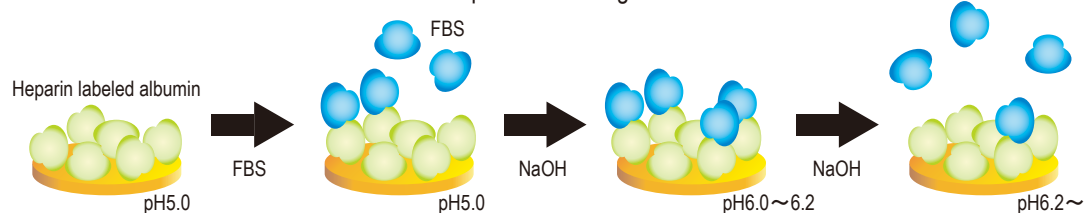
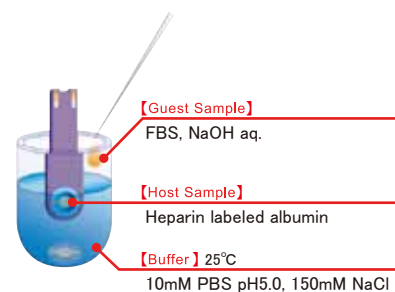
Optimum pH condition for Column chromatography

Materials

1. Heparin labeled albumin (SIGMA H-4016)
2. Fetus Bovine Serum (FBS) (GIBCO, 10082-147)
3. 1M NaOH aq.

Results

1. FBS was immobilized onto sensor surface at pH5.0
2. FBS's immobilizing amount increased when pH becomes higher.
3. Between pH6.0 and 6.2 is the optimum condition for the largest binding amount.
4. Dissociation reaction started when pH becomes higher than 6.3.



Applications

1. Optimization of solution conditions for enzyme reaction. (pH and salt concentration)
2. Optimize conditions for binding and dissociation between samples.
3. Examination of purification conditions of Heparin the other columns. (ex. To develop the buffer solution conditions to elute the target samples.)