

Accurate molecular interaction analysis

Method

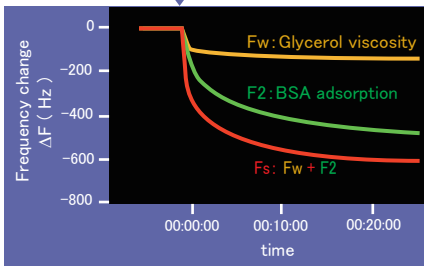
1. Add PBS(500 μ L) and start measurement.
2. Add BSA solution(5 μ L) including viscous materials.

Example

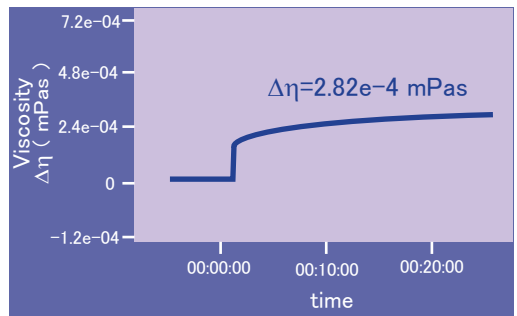
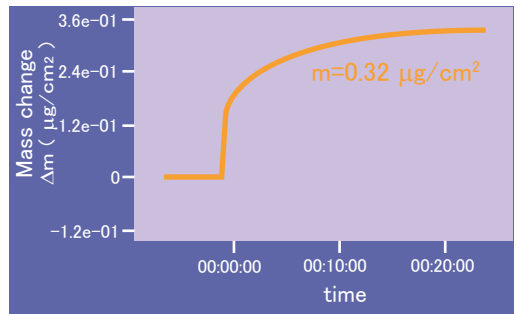
Protein adsorption with viscous elements



BSA(final conc. of 50 μ g/mL) with Glycerol(final conc. of 0.5%)



Analysis



F2 essentially shows mass change. It decreases when binding mass increases.
Fw essentially shows viscosity change. It decreases when viscosity increases.

From these data, binding mass and viscosity are independently calculated.

Application

1. Molecular interaction analysis without effect of material viscosity.
(※ In many cases, glycerol is added to preserve the stability of protein activity)
2. Evaluation of medicine which is dissolved in organic solvent.
3. Monitoring of self-assembled monolayer(SAM) formation.
4. Molecular interaction analysis in clude materials.
5. Measurement of molecular interaction in highly viscous solution.