

Viscoelasticity evaluation of highly concentrated protein solution

Methods

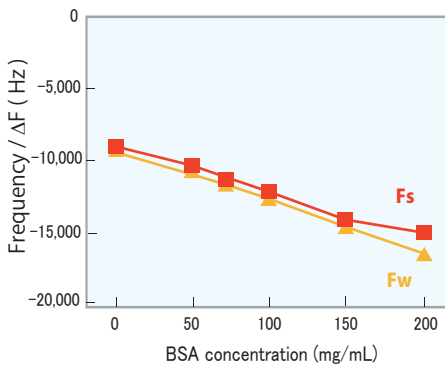
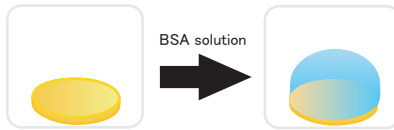
1. The frequency is measured before addition of sample;
2. Ten microlitter of sample solution is mounted on gold electrode.



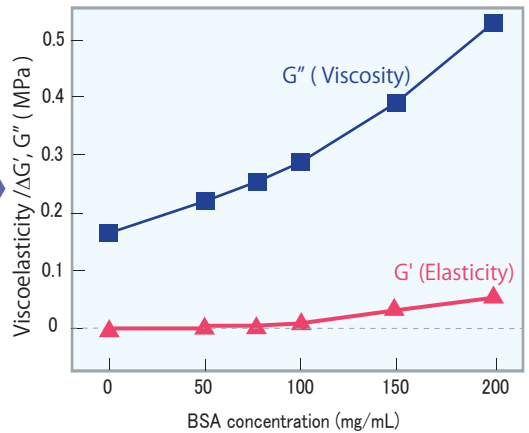
Sample solution (10 μ L)

Example

Viscoelasticity measurement of BSA solution



Analysis



Acquisition of the viscoelastic characteristics of protein drug, such as antibody medicine is important from viewpoint of quality control etc.

In each concentration of BSA solution, the result of Fs and Fw value is shown in the left figure.

From the G' value, BSA solution over the concentration of 100mg/ml is changed to viscoelastic solution.

Application

1. Viscoelastic quality control of high concentrated protein drugs, and optimizing the stock solution for protein preservation.
2. Measurement of viscoelastic polymer solution.