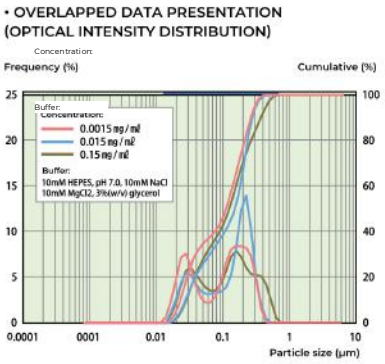
Evaluation of Protein Dispersiveness During Crystallization Process

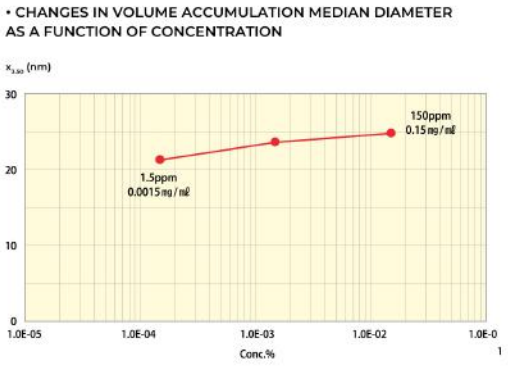
Ribosome / Lysozyme Particle Size Distribution Measurement With Nanotrac

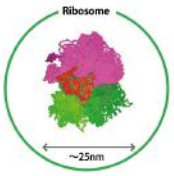
Overview

Homogeneous dispersion (monodispersion) of protein in a solution is a very important factor for the crystallization process of protein. An example is given below showing the evaluation of the state of dispersion by high-accuracy measurement of the particle size distribution of protein-dispersed solution using Nanotrac (a particle size distribution measurement system).

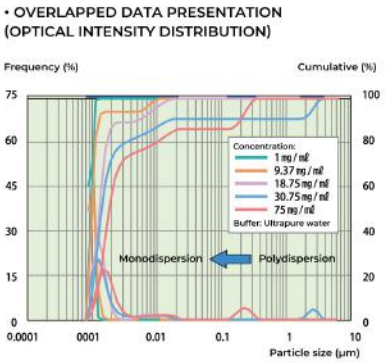
Measurement With a Resolution Covering Very Low Concentration Ranges Sample: Ribosome

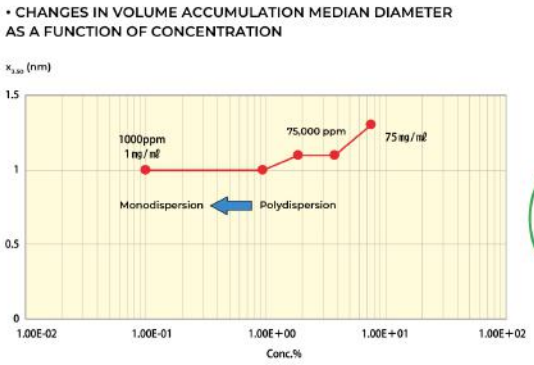


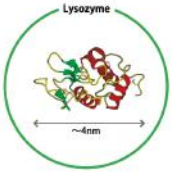




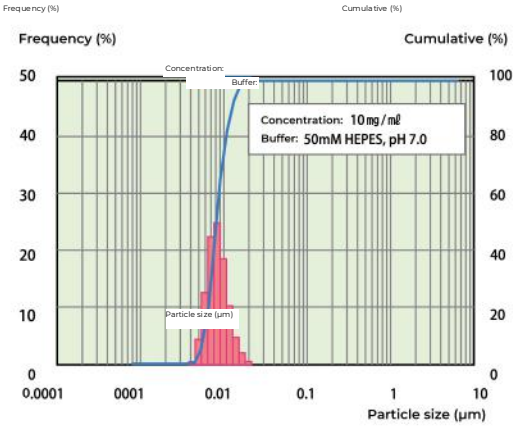
Changes in the State of Association as a Function of Concentration Sample: Lysozyme







Data From Albumin Measurement (Volume Distribution)



Systems Used for Evaluation

Instrument: Nanotrac WAVE II UT151
Principle of measurement: Dynamic light scattering (DLS) / Frequency analysis
Range of measurement: 0.8 - 6.500 nm

Cooperation：RIKEN (Institute of Physical and Chemical Research)

For further information please contact us at:

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