Malvern Zetasizer Nano ZSP Dynamic Light Scattering (DLS)

Dynamic light scattering is a well-established technique for measuring the size, Zeta potential and molecular weight typically in the range of 0.3nm (using highest technology) - 10µm. Light scattering is a consequence of the interaction of light with the electric field of a small particle or molecule.

Typical applications of dynamic light scattering are the characterization of particles, emulsions, collides or molecules, which have been dispersed or dissolved in a liquid. The Brownian motion of particles or molecules in suspension causes laser light to be scattered at different intensities. The technique of dynamic light scattering measures the speed of particles undergoing Brownian motion. The speed of the Brownian motion is influenced by particle size, sample viscosity and temperature. The smaller the particle is, the more rapid the Brownian motion becomes.

Please note that user is responsible for purchasing the consumable/re-usable tubes used for size/ Zeta potential measurements.