

Zeta Potential Measurement

Description:

measurement of zeta potential is used to assess the charging level of small particles dispersed in a liquid. Such colloidal particles may be either macromolecules, or nanometric organic or inorganic particles. This potential reflects the inter-particle repulsion strength and thus provides a measure of the colloidal stability.

Specifications:

Particle size range: 5 nm – 10 μ m

Minimal sample volume: 0.75 mL

Maximal sample conductivity: 200 mS/cm

Minimal concentration depends on refractive index of nanoparticles and size.

Measurements:

The instrument is easy to operate. The disposable measurement cells contain the electrodes and thus contamination between samples is avoided. Each measurement should start with measuring a standard sample to verify proper operation of the instrument. It is important that the samples will be as uniform as possible, without contamination of large particles that would scatter light.