



#5003

Particle Size and Zeta Potential Analyzer (Malvern Instruments, Zetasizer 3000)

DESCRIPTION

Instrument for measuring particle size in suspensions and zeta potential using light scattering techniques. Characterizes colloidal systems, emulsions and suspensions, providing information on the stability and interaction of dispersed particles.

MAIN FEATURES

- Particle size range: 2 nm to 3 μm (DLS); 12° and 90° angles
- Modes: homodyne (particle size) and heterodyne (zeta potential)
- pH range: 2-12; maximum electric field: 80 V/cm
- He-Ne laser 633 nm, 10 mW; modulator 125-1000 Hz

MAIN APPLICATIONS

- Particle and nanoparticle size characterization in dispersions
- Colloidal stability evaluation and aggregation/flocculation studies
- Formulation optimization and analysis of electrostatic interactions

ASSOCIATED SERVICE

3002

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