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Particle Size and Rapid Stability Analyses of Concentrated Dispersions

Use of Multiple Light Scattering Technique

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Characterization of colloidal systems and investigation of their stability in their native state (*i.e.* without denaturation) is of prime importance for the formulator who wants to optimize the development of new products. A new technique has been developed, based on Multiple Light Scattering (MLS) to measure and analyze instability phenomena in liquid colloidal dispersions from 0 to 95% in volume fraction, with particles from 0.1 μ m to 1mm, 5 to 50 times quicker than the naked eye. It is also a useful technique to characterize the dispersion state of colloidal samples (for quality control purposes) and the mean diameter of particles in dispersions (for analytical purposes).

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