SOLUTIONS for Macromolecular and Nanoparticle Characterization

Aggregation

Impurities & Fragments

Native Properties

Oligomeric State **Glycoproteins** Membrane Proteins

Conjugation

PEGylation Protein-polysaccharides

Formulation Screening

High-concentration mAbs
Colloidal and Thermal Stability

Solution Quality

Purification
Reagent Qualification

Interactions Affinity & Stoichiometry

Self-associations Hetero-associations

Mass and Size Distributions

Reaction Monitoring Degradation Kinetics

Shape and Structure

Size Distributions
Number Distributions

Conformation

Mark-Houwink-Sakurada Parameters Branching

Process Development

Liposomes, Viruses, VLPs Separation of Complex Fluids

Copolymers

Composition Ratio dn/dc

Zeta Potential

Engineered and Environmental Nanoparticles

Drug Delivery Nanoparticles



Absolute molecular weight from 200 to 1,000,000,000 g/mol



Shape, structure and branching parameters



Zeta potential and net molecular charge for particles from 2 nm to 100 µm



RMS radius from 10 to 500 nm and hydrodynamic radius from 0.2 to 5,000 nm



Binding affinity from pM to mM and absolute stoichiometry of complex interactions



Molecular weight and fraction of each constituent in a binary conjugate



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