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Waters announces launch of ZetaStar instrument from Wyatt Technology portfolio for nanoparticle analysis

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ZetaStar instrument supports workflows in gene therapy, vaccines, mRNA, proteins, and R&D laboratories



Waters Corporation has introduced the DynaPro™ ZetaStar™ instrument from its Wyatt Technology portfolio for nanoparticle analysis. The new instrument simultaneously enables dynamic and static light scattering and dynamic and electrophoretic light scattering (DLS/SLS/ELS) measurements, all in one device.

By combining multiple light scattering techniques and automatically assessing data quality and performing adaptive data capture, the ZetaStar instrument delivers both increased sensitivity and faster measurements to aid the precise development of complex biologics, using extremely low sample volumes.

A unique flow cell design allows the ZetaStar instrument to be configured with an autosampler, significantly increasing laboratory efficiency and productivity with dozens of unattended measurements that can be run for several hours or even overnight. The instrument's ability to measure simultaneous DLS and ELS along with the adaptive data collection functionality, improves the speed of traditional ELS measurements by up to 10x.

Designed to support the expanding needs of biopharma formulation and development laboratories, the ZetaStar instrument helps scientists working in gene therapy, vaccines, mRNA, and proteins develop more stable therapies. It can also benefit R&D laboratories in material science investigating the colloidal stability of novel molecules like quantum dots or other metal nanoparticles used in semiconductor applications.