

Dutline
Asymmetrical flow field-flow fractionation (AF4) principle separation channel promises of AF4 for the characterization of colloidal formulations
Multi-angle laser light scattering (MALLS) for size determination
Selected results of current projects
 drug release and transfer of a water-insoluble model drug from liposomes
2. Evaluation of the effect of autoclaving on poloxamer- stabilized trimyristin dispersions
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Summary and outlook

AF4 presents a valuable tool for the characterization of colloidal formulations as it facilitates separation of even complex samples.

> Advantages:

- · broad separation range over the whole colloidal size range
- robust and reproducible separations
- no stationary phase and overall gentle separation conditions
- monitoring of changes in size during in drug transfer studies

> Disadvantages/challenges:

- > requirements on sample (size in the nm-range, physical stability)
- relatively time-consuming (normally ~ between 45 and 70 min)
- > potential sample-membrane interactions and artifacts due to sample dilution
- method development may be challenging and time-consuming

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